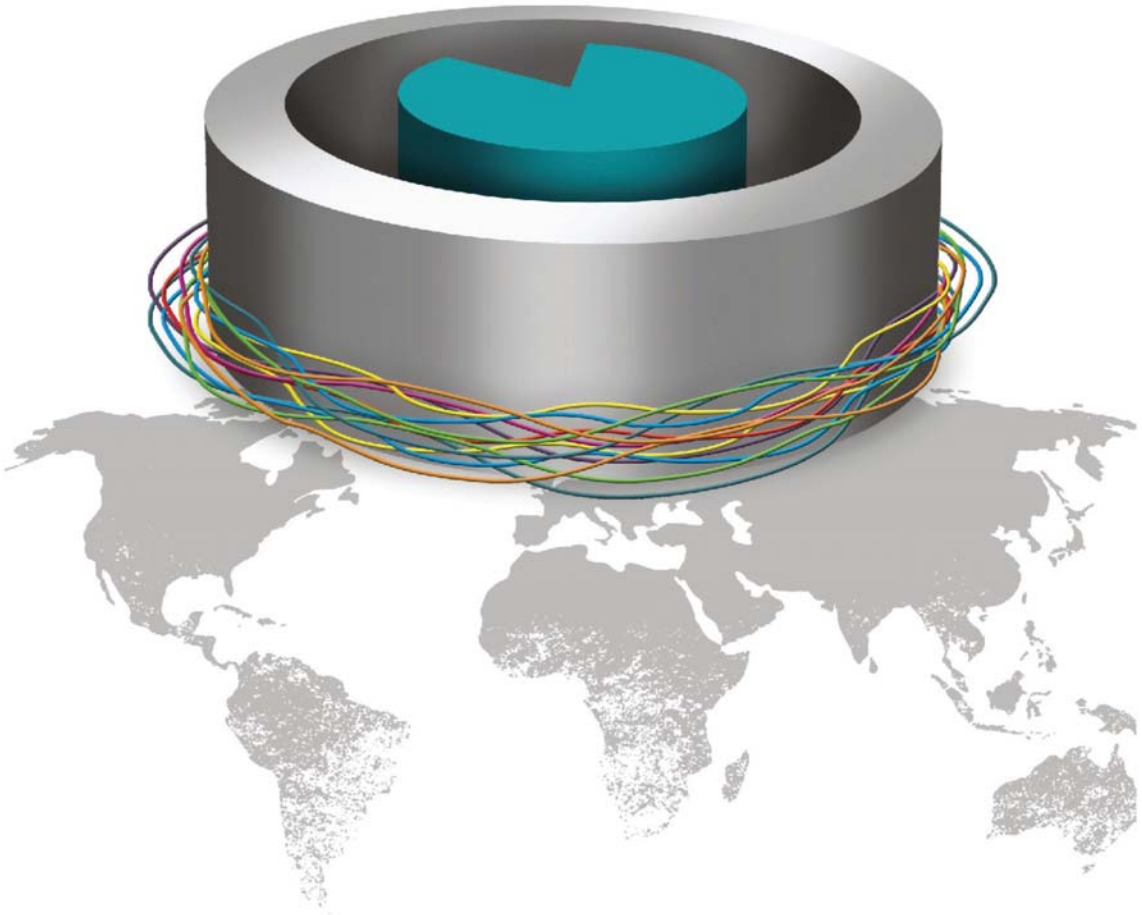
VATAN KABLO



Ürün Katalogu

Product Catalogue

www.**vatan**.com.tr

VATAN
KABLO

Genel Bilgiler
General Information

%100 Türk sermayesiyle 1975 yılında kurulan ve Türkiye'nin en büyük kablo üreticilerinden biri olan Vatan Kablo ,%99,99 saflıkta bakır çubuktan 66 kV yüksek gerilim kablolarına kadar üretim yapan entegre bir tesise sahiptir.

Tecrübesi ve birikimiyle "ÖNCE MÜŞTERİ MEMNUNİYETİ" ilkesini benimseyen firmamız gerek kullandığı son teknolojisi gerekse de üstün hizmet anlayışı ile müşterilerine en iyi hizmeti vermeyi amaçlamıştır.

Üretimimiz Türkiye de tek olan yüksek teknolojili bakır tesisinde başlar.Tüm üretimin otomatik olarak yapıldığı bakır tesisinde ,katotlar halinde gelen bakırlar ergitilerek "UPCAST" yöntemi ile 8,12 veya 16 mm çapta filmaşin olarak hazırlanırlar. 0,1 mm'ye kadar inceltilebilen bakırlar daha sonra kablo üretimi için işleme alınırlar. Üretimimiz Çorlu'daki 30.000 m2 si kapalı ,150.000 m2 si açık alanda kurulu tesislerimizde dünya standartlarına uyularak konusunda bilgi ve deneyim sahibi uzman ekipler tarafından en son teknolojik gelişmelere uygun makineler kullanılarak gerçekleştirilir.Ürünler,üretimin her aşamasında ve özellikle de son kontroller sırasında modern test cihazları kullanılarak test edilir ve yüksek kaliteli ürünün müşteriye ulaştırılması sağlanmış olur. Ürün yelpazemizde 66 kV' a kadar olan alçak,orta ve yüksek gerilim kabloları bulunmaktadır.Ayrıca insan yoğunluğu fazla olan mekanlarda kullanımı yurdumuzda da zorunlu hale getirilen,standart kablolar gibi yangın anında yoğun duman ve toksik gaz çıkarmayan,HALOJENSİZ kablolar da bünyemizde üretilmekte,yangın esnasında can ve mal güvenliği en üst düzeyde koruma bu sayede sağlanmaktadır.Ayrıca hem alçak gerilim kablolarda hemde orta gerilim kablolarda alüminyum iletkenli kablo üretimimizde mevcuttur.

Yurtiçi pazarındaki güvenilir ismi yanı sıra Vatan Kablo , başta Avrupa ülkelerine olmak üzere Orta Doğu ülkeleri,Afrika ve Orta Asya ülkelerine yaptığı ihracatı ile dünyada bilinen bir marka olmuştur. Kapsamlı ürün ve sistem sertifikaları; TSE,HAR,TS EN ISO 9001:2000 Kalite Yönetim Sistem Belgesi,GOST-R,UKR-SEPRO ve ISO 14001 Çevre Yönetim Belgesi ile müşterilerine güven vermektedir.

Saygılarımızla…

VATAN KABLO A.Ş.

One of the largest companies on cable manufacturing in Turkey Vatan Cable ,based in 1975 on %100 of the Turkish investment,possesses an industrial complex on which all kinds of a cable from % 99,99 Copper rod to 66 kV high voltage cables .

Vatan Cable has determined first priority as " HİGH COSTUMER SATISFACTION" with combining the latest technologies and experience.

Vatan Cable has the only in Turkey hi-tech industrial complex, on which the high-quality copper rods are made. On this industrial complex all production authomatized, copper arriving here as cothodes,then it is melted by" UPCAST" method and made copper rod from 8,12 to 16 mm.Further this copper rods are refined to 0,1 mm and used in production. The production is performed at integrated plant with total in door area of 30.000 m2 and site area of 150.000 m2 with the latest Technologies and using the most updated machinery under supervision of skilled and experienced staff.The products are controlled in all processes of production cycles and in final quality control process are tested with the newest technological equipments. We have product range of low , medium and high voltage energy cables up to 66 kV.Furthermore we have production of Halogen Free cables which exhausts less smoke and toxic gases in comparison with standart cables,obtain greater human safety and minimize damages during fire.Furthermore we have production of low voltage and medium voltage cables with aluminium conductor.

We export through many countries in Europe ,Middle East Africa and Middle Asia and Vatan Kablo become well known brand in global world. Vatan Cable products are supplied to customers in conformity with the product and quality certificates as TSE,HAR,TS EN ISO 9001:2000,GOST-R,UKR-SEPRO and ISO 14001 Environmental Management System.

Best Regards…

VATAN CABLE INC.

Belgelerimiz / Certificates

VATAN KABLO

İÇİNDEKİLER / CONTENTS

VATAN KABLO

Halojensiz Kablolar
Halogen Free Cables

Orta Gerilim Kabloları
Medium Voltage Cables

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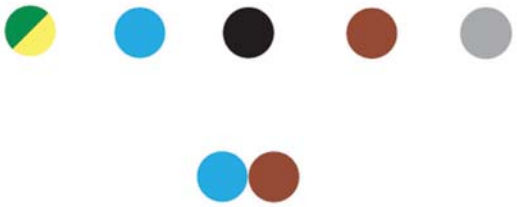
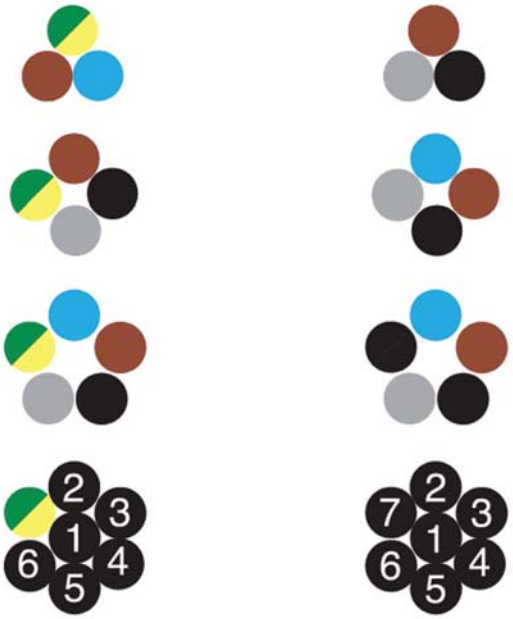
KABLO DAMAR RENKLERİ / COLOR OF CABLES CORES





TEK DAMARLI KABLO RENKLERİ / COLOR OF SINGLE CORE

H 05 V-U H 05 V-K H 07 V-U H 07 V-R H 07 V-K
H 05 Z-U H 05 Z1-U H 05 Z-K H 05 Z1-K H 07 Z-U H 07 Z1-U
H 07 Z1-K H 07 Z-R H 07 Z1-R

Mavi - Kahve - Siyah - Gri - Sarı/Yeşil
Blue - Brown - Black - Grey -Yellow/Green

İKİ DAMARLI KABLO RENKLERİ / COLOR OF TWO CORES

NVV-NYM H 03 VV-F H 05 VV-F NHXMH NHMH H 03 Z1Z1-F
H 05 Z1Z1-F YVV YVCV(NYCY) YVZ2V(NYRY) YXV(N2XY)
N2XRY N2XH N2XRH

Mavi - Kahve
Blue - Brown

ÜÇ DAMARLI KABLO RENKLERİ / COLOR OF THREE CORES

NVV-NYM H 03 VV-F H 05 VV-F NHXMH NHMH H 03 Z1Z1-F
H 05 Z1Z1-F

Yeşil/Sarı - Mavi - Kahverengi
Green/Yellow - Blue - Brown

YVV YVCV(NYCY) YVZ2V(NYRY) YXV(N2XY)
N2XRY N2XH N2XRH

Kahve - Siyah - Gri
Brown - Black - Grey

DÖRT DAMARLI KABLO RENKLERİ / COLOR OF FOUR CORES

NVV-NYM H 03 VV-F H 05 VV-F NHXMH NHMH H 03 Z1Z1-F
H 05 Z1Z1-F YVV YVCV(NYCY) YVZ2V(NYRY) YXV(N2XY)

Mavi - Kahve - Siyah - Gri
Blue - Brown - Black - Grey

BEŞ DAMARLI KABLO RENKLERİ / COLOR OF FIVE CORES

NVV-NYM H 03 VV-F H 05 VV-F NHXMH NHMH H 03 Z1Z1-F
H 05 Z1Z1-F YVV YVCV(NYCY) YVZ2V(NYRY) YXV(N2XY)
N2XRY N2XH N2XRH

Yeşil/Sarı - Mavi - Kahve - Siyah - Gri
Green/Yellow - Blue - Brown - Black - Grey

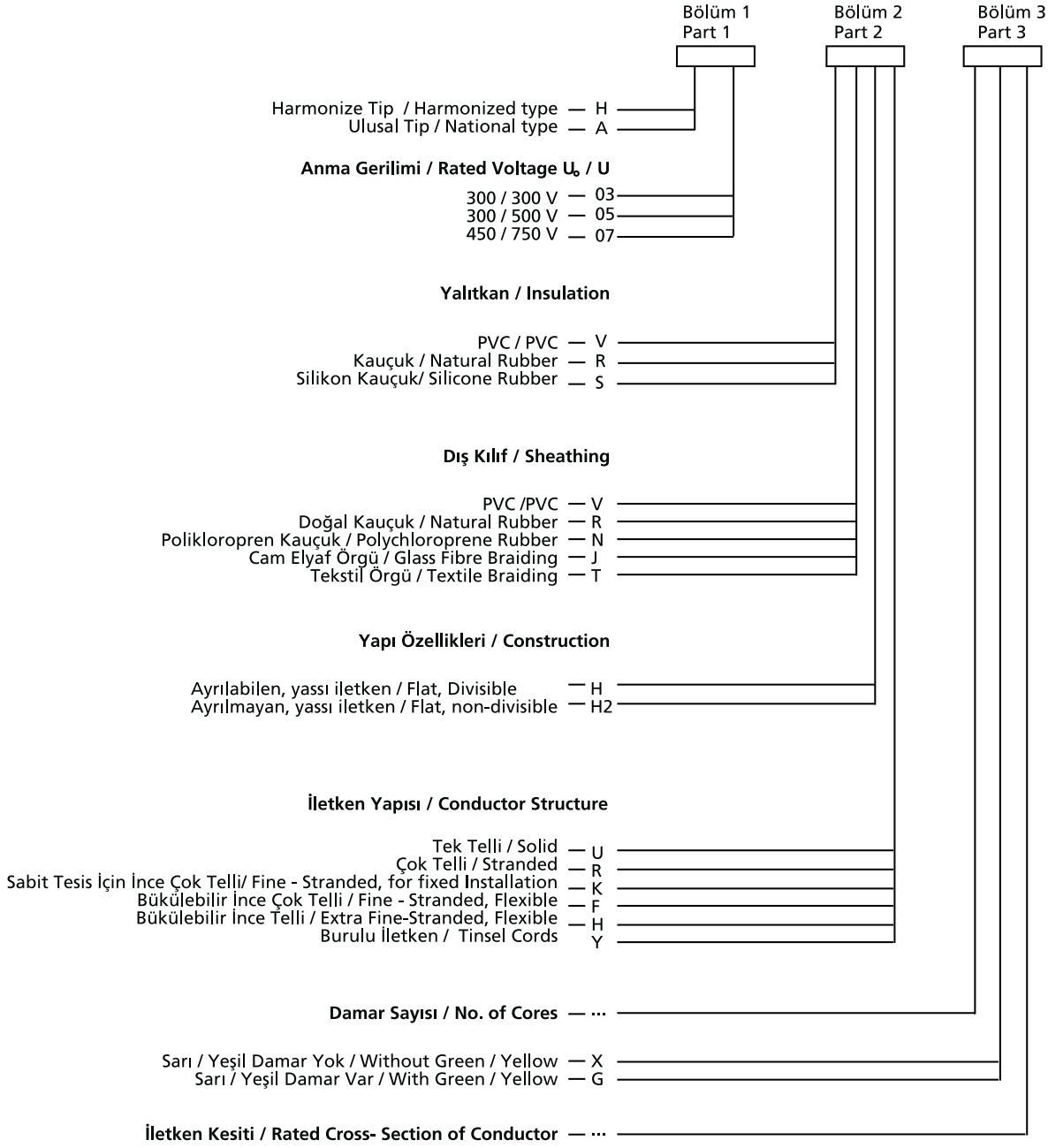
VATAN KABLO

İletken ve Kabloların TS Sembolleri
Symbols of Insulated Wires and Power Cables According to TS

Rumuzlar/ Abbreviations			Standartlar / Standarts					Anma Gerilimi Rated Voltages V
TS	VDE	РОССИЯ МАРКА	TS	Harmonize Harmonized	VDE	IEC	СТАНДАРТ	
H05V-U	H05V-U	ПВ1	9758	HD 21.3 S3	0281-3	-	ГОСТ 6323-79	300/500 V
H07V-U	H07V-U	ПВ1	9758	HD 21.3 S3	0281-3	-	ГОСТ 6323-79	450/750 V
H07V-R	H07V-R	ПВ2, ПВ3	9758	HD 21.3 S3	0281-3	-	ГОСТ 6323-79	450/750 V
H05V-K	H05V-K	ПВ4	9758	HD 21.3 S3	0281-3	-	ГОСТ 6323-79	300/500 V
H07V-K	H07V-K	ПВ4	9758	HD 21.3 S3	0281-3	-	ГОСТ 6323-79	450/750 V
NVV	NYM	NYM	9759	HD 21.4 S2	0250-204	-	ТУ 3521-009-05755714-2002	300/500 V
H03VV-F	NYLHY-rd	ПВС	9760	HD 21.5 S3	0281-5	-	ГОСТ 7399-97	300/300 V
H05VV-F	H05VV-F	ПВС	9760	HD 21.5 S3	0281-5	-	ГОСТ 7399-97	300/300 V
YVV	NYY enerji	NYY	IEC 60502-1	-	0276-603	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YVV	NYY kumanda	NYY	IEC 60502-1	-	0276-627	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YVMV	NYCY	NYCY	IEC 60502-1	-	0276-603	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YVOV	NYRGY	NYRGY	IEC 60502-1	-	0271	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YVŞV	NYFGbY	NYFGbY	IEC 60502-1	-	0271	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YE$_3$V	N2XY	ПвВГ	IEC 60502-1	-	0276-603	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YE$_3$MV	N2XCY	-	IEC 60502-1	-	0276-603	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YE$_3$OV	N2XRY	-	IEC 60502-1	-	0271	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YE$_3$ŞV	N2XFGY	-	IEC 60502-1	-	0271	60502-1	ТУ 3530-035-05755714-2007	0,6/1 kV
YE$_3$SV	N2XSY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-277-2001	3,6/6 kV
YE$_3$SHŞV	N2XSEYFGbY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	3,6/6 kV
YE$_3$SV	N2XSY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	6/10 kV
YE$_3$SHŞV	N2XSEYFGbY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	6/10 kV
YE$_3$SV	N2XSY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	8,7/15 kV
YE$_3$SHŞV	N2XSEYFGbY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	8,7/15 kV
YE$_3$SV	N2XSY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	12/20 kV
YE$_3$SHŞV	N2XSEYFGbY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	12/20 kV
YE$_3$SV	N2XSY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	18/30 kV
YE$_3$SHŞV	N2XSEYFGbY	ПвВ	IEC 60502-2	-	0276-620	60502-2	ТУ 16.К71-335-2004	18/30 kV
YE$_3$SV	N2XSY	ПвВ	TSEK 16/381	-	-	60502-2	ТУ 16.К71-335-2004	20,3/35 kV
YE$_3$SŞV	N2XSEYFGbY	ПвВ	TSEK 16/381	-	-	-	ТУ 16.К71-335-2004	20,3/35 kV
07Z1-U	-	-	9758	HD 21.3 S3	-	-	-	450/750 V
07Z1-R	-	-	9758	HD 21.3 S3	-	-	-	450/750 V
07Z1-K	-	-	9758	HD 21.3 S3	-	-	-	450/750 V
-	NHXMH	-	9759	HD 21.4 S2	0250-214	-	-	300/500 V
052XZ1-F	NHXMH	-	9760	HD 21.5 S3	0250-214	-	-	300/500 V
NHMH	-	-	-	-	0250-215	-	-	300/500 V
N2XH	-	-	-	-	0276-604/627	-	-	0,6/1 kV
N2XCH	N2XCH	-	-	-	0276-604/627	60502-1	-	0,6/1 kV
-	N2XRH	-	-	-	-	60502-1	-	0,6/1 kV
-	N2XFGbH	-	-	-	-	60502-1	-	0,6/1 kV
N2XHFE 180	-	-	-	-	0276-604/627	-	-	0,6/1 kV

HARMONİZE KABLOLARIN KOD TASARIMI

Desingnation Code For Harmonized Cables



VATAN KABLO

SEMBOLLER / SYMBOLS

TS 621	VDE 0276	AÇIKLAMA	EXPLANATION
A	A	**Alüminyum iletken**	Aluminium conductor
V	Y	**PVC termoplastik yalıtkan veya kılıf**	PVC thermoplastic insulation or sheath
S	S	**Siper**	Shield
SH	SH	**Her damar üzerinde siper**	Metallic screen(copper) over each core
M	C	**Konsantrik iletken**	Concentric copper conductor
E	2Y	**Polietilen**	Polyethylene
E3	2X	**Çapraz bağlı polietilen**	Cross-linked polyethylene
Ş	F	**Galvanizli yassı çelik tellerden yapılmış zırh**	Galvanized flat steel wire armour
O	R	**Galvanizli yuvarlak çelik tellerden yapılmış zırh**	Galvanized round steel wire armour
	G	**Çelik tutucu şerit**	Steel tape helix
s	s	**Daire kesmesi**	Sector-shaped conductor
ş	v	**Sıkılaştırılmış iletken**	Compacted conductor
ç	rm	**Çok telli iletken**	Stranded conductor
	W	**Sıcaklığa ve korozyona dayanıklı**	Resistant against heat and corrosion
	VDE 0250	**AÇIKLAMA**	**EXPLANATION**
	Y	**PVC termoplastik yalıtkan**	Thermoplastic insulation material(PVC)
	S	**Metal siper**	Metallic screen
	G	**Lastik yalıtkan**	Rubber insulation
	2G	**Sıcaklığa dayanıklı**	Resistant to heat
	W	**Açık hava sartlarında dayanıklı**	Resistant to open air conditions
	u	**Alev geciktirici**	Flame retardant
	AF	**Burulmuş kablo**	Twisted cable
	B	**Metal kılıf (kurşun kılıf)**	Metal Sheath(lead)
	T	**Taşıyıcı ip, tel ve benzeri**	Pilot core as textile, steel or similar
	ö	**Yağa dayanıklı**	Resistant to oil
	J	**Yeşil/Sarı koruma iletkeni**	Green/ yellow conductor for earth.

VATAN
KABLO

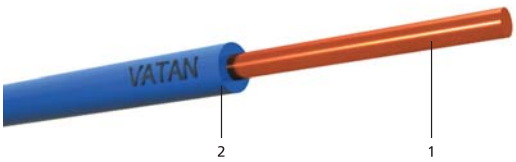
Alçak Gerilim Kabloları
Low Voltage Cables

PVC İZOLELİ, KILIFSIZ TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

PVC INSULATED NON-SHEATED
SINGLE CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

H05V-U	300/500 V	TS 9758	VDE 0281
H07V-U/R	450/750 V	TS 9758	VDE 0281



1- Bir veya çok telli bakır iletken
2- PVC izole

1. Solid or stranded copper conductor
2. PVC insulation

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
Test gerilimi (AC): 2 kV - 2.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV-2.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Bu tip iletkenler rutubetsiz yerlerde boru içine sıva üstü veya sıva altında kullanılırlar. Normal ve hafif işletme koşullarına uygundur.

APPLICATIONS
For dry, normal and light duty conditions, in ducts, under and over plaster for house wiring.

Teknik Özellikler / Technical Features

Normal Kesit	Tip	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Type*	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2		mm	Havada Air (A)	Boru içinde Ground (A)	Ohm / Km	Kg	Mt
0.5	H 05 V-U	2.00	11	-	36.000	8.26	100
0.75	H 05 V-U	2.20	14	-	24.500	10.96	100
1	H 05 V-U	2.30	18	-	18.100	13.35	100
1.5	H 07 V-U	2.80	24	15	12.100	19.89	100
2.5	H 07 V-U	3.40	32	19	7.410	31.10	100
4	H 07 V-U	3.80	42	25	4.610	45.15	100
6	H 07 V-U	4.30	54	33	3.080	63.96	100
10	H 07 V-U	5.50	73	45	1.830	106.50	100
16	H 07 V-U	6.50	98	61	1.150	162.75	100
1.5	H 07 V-R	3.00	24	15	12.100	21.23	100
2.5	H 07 V-R	3.60	32	19	7.410	32.73	100
4	H 07 V-R	4.20	42	25	4.610	48.87	100
6	H 07 V-R	4.80	54	33	3.080	69.26	100
10	H 07 V-R	5.80	73	45	1.830	110.44	100
16	H 07 V-R	6.80	98	61	1.150	167.40	100
25	H 07 V-R	8.30	129	83	0.727	259.39	100 or 1000
35	H 07 V-R	9.40	158	103	0.524	351.95	100 or 1000
50	H 07 V-R	11.00	197	132	0.387	482.00	100 or 1000
70	H 07 V-R	12.60	245	165	0.268	674.17	100 or 1000
95	H 07 V-R	14.80	290	207	0.193	931.24	100 or 1000
120	H 07 V-R	16.20	345	235	0.153	1,158.82	100 or 1000
150	H 07 V-R	18.00	390	-	0.124	1,432.93	100 or 1000
185	H 07 V-R	20.20	445	-	0.099	1,792.03	100 or 1000
240	H 07 V-R	22.90	525	-	0.075	2,336.80	100 or 1000
300	H 07 V-R	25.60	605	-	0.060	2,927.10	100 or 1000
400	H 07 V-R	28.80	725	-	0.047	3,757.31	100 or 1000

PVC İZOLELİ, KILIFSIZ TEK DAMARLI, BÜKÜLGEN BAKIR İLETKENLİ KABLOLAR

PVC INSULATED NON-SHEATED SINGLE CORE CABLES WITH FLEXIBLE COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

H05V-K	300/500 V	TS 9758	VDE 0281
H07V-K	450/750 V	TS 9758	VDE 0281

1- Bükülgen bakır iletken
2- PVC izole

1- Flexible copper conductor
2- PVC insulation

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
Test gerilimi (AC): 2 kV - 2.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV-2.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Bağlantılama ve dağıtım tesisleri.

APPLICATIONS
For connection and distribution systems.

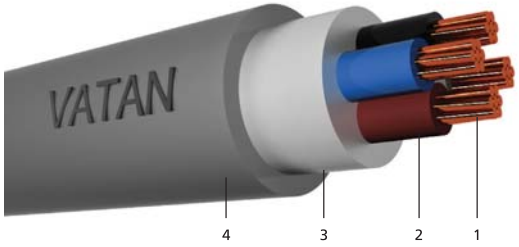
Teknik Özellikler / Technical Features

Normal Kesit	Tip	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Type*	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2		mm	Havada Air (A)	Boru içinde Ground (A)	Ohm / Km	Kg / Km	Mt
0.5	H 05 V-K	2.200	8	-	39.000	9.03	100
0.75	H 05 V-K	2.300	10	-	26.000	11.26	100
1	H 05 V-K	2.500	16	-	19.500	14.08	100
1.5	H 07 V-K	2.900	24	15	13.300	19.82	100
2.5	H 07 V-K	3.600	32	19	7.980	31.80	100
4	H 07 V-K	4.100	41	25	4.950	46.47	100
6	H 07 V-K	4.600	53	33	3.300	64.99	100
10	H 07 V-K	5.900	72	45	1.910	109.70	100
16	H 07 V-K	7.200	97	61	1.210	169.87	100
25	H 07 V-K	8.900	128	83	0.780	262.38	100 or 1000
35	H 07 V-K	9.900	156	103	0.554	353.41	100 or 1000
50	H 07 V-K	11.800	195	132	0.386	505.22	100 or 1000
70	H 07 V-K	13.300	243	165	0.272	691.47	100 or 1000
95	H 07 V-K	15.300	287	207	0.206	917.44	100 or 1000
120	H 07 V-K	17.400	342	235	0.161	1,175.33	100 or 1000
150	H 07 V-K	19.400	386	-	0.129	1,465.48	100 or 1000
185	H 07 V-K	21.500	441	-	0.106	1,792.02	100 or 1000
240	H 07 V-K	24.500	520	-	0.080	2,554.70	100 or 1000
300	H 07 V-K	27.300	605	-	0.064	2,932.36	100 or 1000
400	H 07 V-K	31.000	725	-	0.049	3,848.44	100 or 1000

PVC İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR
PVC INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

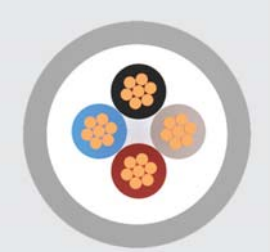
ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

NVV	300/500 V	TS 9759
NYM	300/500 V	VDE 0250



1- Bir ya da çok telli bakır iletken
2- PVC izole
3- PVC dolgu
4- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC filler
4- PVC outer sheath



TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
Test gerilimi (AC): 2 kV
Serim sıcaklığı min: 5 °C
Dış kılıf rengi: Gri

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV-2.5 kV
Installation temp. min: 5 °C
Colour of outer sheath: Grey

KULLANMA YERİ
Rutubetli yerlerde, sıva altı ve sıva üstü sabit tesislerde kullanılır. Bina dışı açık tesislerde kullanılabilir. Yer altında kullanılmaz.

APPLICATIONS
In wet places, open wiring systems. Can not be applied in underground work, house wiring system.

Teknik Özellikler / Technical Features

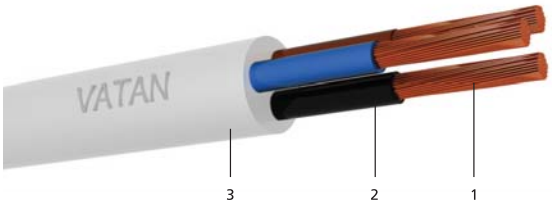
Normal Kesit / *Rated Cross Section*	Tip / *Type*	Kablo Dış Çapı / *Overall Diameter Of Cable*	Akım Taşıma Kapasitesi / *Current Carrying Capacity*		İletken DC Direnci (20 °C) / *Conductor DC Resistance at (20 °C)*	Net Ağırlık / *Net Weight*	Sevk Uzunluğu / *Delivery Lenght*
mm²		mm	Havada Air (A)	Boru içinde Ground (A)	Ohm / Km	Kg / Km	Mt
2 x 1.5	NVV-NYM re	9.20	18.5	26	12.100	128.55	100
2 x 2.5	NVV-NYM re	10.40	25	34	7.410	172.71	100
2 x 4	NVV-NYM re	11.20	34	44	4.610	216.46	100
2 x 6	NVV-NYM re	12.60	43	56	3.080	288.92	100
2 x 10	NVV-NYM rm	16.00	60	75	1.830	471.34	100 or 1000
2 x 16	NVV-NYM rm	18.40	80	98	1.150	665.03	100 or 1000
3 x 1.5	NVV-NYM re	9.70	18.5	26	12.100	150.02	100
3 x 2.5	NVV-NYM re	11.00	25	34	7.410	204.76	100
3 x 4	NVV-NYM re	11.90	34	44	4.610	263.07	100
3 x 6	NVV-NYM re	13.70	43	56	3.080	363.64	100
3 x 10	NVV-NYM rm	17.00	60	75	1.830	579.04	100 or 1000
3 x 16	NVV-NYM rm	19.50	80	98	1.150	823.78	100 or 1000
4 x 1.5	NVV-NYM re	10.40	18.5	26	12.100	177.96	100
4 x 2.5	NVV-NYM re	11.80	25	34	7.410	244.43	100
4 x 4	NVV-NYM re	12.80	34	44	4.610	318.25	100
4 x 6	NVV-NYM re	14.80	43	56	3.080	444.48	100
4 x 10	NVV-NYM rm	18.40	60	75	1.830	710.30	100 or 1000
4 x 16	NVV-NYM rm	21.20	80	98	1.150	1,021.77	100 or 1000
5 x 1.5	NVV-NYM re	11.20	18.5	26	12.100	210.46	100
5 x 2.5	NVV-NYM re	12.80	25	34	7.410	293.11	100
5 x 4	NVV-NYM re	14.30	34	44	4.610	396.51	100
5 x 6	NVV-NYM re	16.10	43	56	3.080	537.90	100
5 x 10	NVV-NYM rm	20.10	60	75	1.830	864.33	100 or 1000
5 x 16	NVV-NYM rm	23.60	80	98	1.150	1,269.40	100 or 1000

PVC İZOLELİ, ÇOK DAMARLI, BÜKÜLGEN BAKIR İLETKENLİ KABLOLAR

PVC INSULATED MULTI-CORE CABLES
WITH FLEXIBLE COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

H05VV-F 300/500 V TS 9760 VDE 0281



1- İnce çok telli bakır iletken
2- PVC izole
3- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
Test gerilimi (AC): 2 kV
Serim sıcaklığı min: 5 °C
Dış kılıf rengi: Beyaz, Siyah

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV
Installation temp. min: 5 °C
Colour of outer sheath: White, Black

KULLANMA YERİ
Kuru ve nemli yerlerde, taşınabilir cihazlarda (ısıtıcılarda) kullanılır.

APPLICATIONS
In dry and wet places, household appliances, heaters etc.

Teknik Özellikler / Technical Features

Normal Kesit	Tip	Kablo Dış Çapı	Akım Taşıma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Type*	*Overall Diameter Of Cable*	*Current Carrying Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2		mm	Havada Air (A)	Ohm / Km	Kg / Km	Mt
2 x 0.50	H 03 VV-F	5.20	3	39.000	38.02	100
2 x 0.75	H 03 VV-F	5.40	6	26.000	43.89	100
3 x 0.50	H 03 VV-F	5.60	3	39.000	46.31	100
3 x 0.75	H 03 VV-F	5.80	6	26.000	54.06	100
4 x 0.50	H 03 VV-F	6.10	3	39.000	56.37	100
4 x 0.75	H 03 VV-F	6.30	6	26.000	66.06	100
5 x 0.50	H 03 VV-F	6.50	3	39.000	65.50	100
5 x 0.75	H 03 VV-F	6.80	6	26.000	78.64	100
2 x 0.75	H 05 VV-F	6.20	6	26.000	54.62	100
2 x 0.75 [1]	H 05 VV-F	7.20	6	26.000	76.49	100
2 x 1	H 05 VV-F	7.00	10	19.500	70.18	100
2 x 1 [1]	H 05 VV-F	8.20	10	19.500	100.16	100
2 x 1.5	H 05 VV-F	7.80	15	13.300	90.28	100
2 x 1.5 [1]	H 05 VV-F	9.00	15	13.300	124.46	100
2 x 2.5	H 05 VV-F	9.20	20	7.980	131.20	100
2 x 2.5 [1]	H 05 VV-F	10.40	20	7.980	172.04	100
2 x 4	H 05 VV-F	10.40	26	4.950	178.82	100
2 x 4 [1]	H 05 VV-F	12.00	26	4.950	239.37	100
2 x 6*	H 05 VV-F	11.60	33	3.300	236.34	50 or 1000
2 x 6* [1]	H 05 VV-F	13.20	33	3.300	304.94	50 or 1000
2 x 10*	H 05 VV-F	14.20	45	1.910	371.40	50 or 1000
2 x 10* [1]	H 05 VV-F	16.20	45	1.910	478.61	50 or 1000
2 x 16*	H 05 VV-F	17.20	61	1.210	561.04	50 or 1000
2 x 16* [1]	H 05 VV-F	19.20	61	1.210	695.60	50 or 1000

PVC İZOLELİ, ÇOK DAMARLI, BÜKÜLGEN BAKIR İLETKENLİ KABLOLAR

PVC INSULATED MULTI-CORE CABLES
WITH FLEXIBLE COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

H05VV-F 300/500 V TS 9760 VDE 0281

Teknik Özellikler / Technical Features

Normal Kesit	Tip	Kablo Dış Çapı	Akım Taşıma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Type*	*Overall Diameter Of Cable*	*Current Carrying Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2		mm	Havada Air (A)	Ohm / Km	Kg / Km	Mt
3 x 0.75	H 05 VV-F	6.60	6	26.000	65.50	100
3 x 0.75 [1]	H 05 VV-F	7.60	6	26.000	88.10	100
3 x 1	H 05 VV-F	7.50	10	19.500	85.17	100
3 x 1 [1]	H 05 VV-F	8.70	10	19.500	116.41	100
3 x 1.5	H 05 VV-F	8.50	15	13.300	113.26	100
3 x 1.5 [1]	H 05 VV-F	9.50	15	13.300	144.34	100
3 x 2.5	H 05 VV-F	10.00	20	7.980	165.38	100
3 x 2.5 [1]	H 05 VV-F	11.00	20	7.980	202.53	100
3 x 4	H 05 VV-F	11.30	26	4.950	227.96	100
3 x 4 [1]	H 05 VV-F	13.30	26	4.950	303.30	100
3 x 6*	H 05 VV-F	12.40	33	3.300	298.46	50 or 1000
3 x 6* [1]	H 05 VV-F	14.40	33	3.300	382.31	50 or 1000
3 x 10*	H 05 VV-F	15.20	45	1.910	473.85	50 or 1000
3 x 10* [1]	H 05 VV-F	17.20	45	1.910	583.85	50 or 1000
3 x 16*	H 05 VV-F	18.40	61	1.210	718.93	50 or 1000
3 x 16* [1]	H 05 VV-F	20.40	61	1.210	855.77	50 or 1000
4 x 0.75	H 05 VV-F	7.20	6	26.000	80.06	100
4 x 0.75 [1]	H 05 VV-F	8.20	6	26.000	104.75	100
4 x 1	H 05 VV-F	8.40	10	19.500	108.38	100
4 x 1 [1]	H 05 VV-F	9.40	10	19.500	138.65	100
4 x 1.5	H 05 VV-F	9.50	15	13.300	143.92	100
4 x 1.5 [1]	H 05 VV-F	10.30	15	13.300	173.58	100
4 x 2.5	H 05 VV-F	10.90	20	7.980	203.58	100
4 x 2.5 [1]	H 05 VV-F	12.10	20	7.980	249.63	100
4 x 4	H 05 VV-F	12.70	26	4.950	293.50	100
4 x 4 [1]	H 05 VV-F	14.30	26	4.950	363.40	100
4 x 6*	H 05 VV-F	13.90	33	3.300	384.19	50 or 1000
4 x 6* [1]	H 05 VV-F	15.50	33	3.300	462.07	50 or 1000
4 x 10*	H 05 VV-F	17.10	45	1.910	613.57	50 or 1000
4 x 10* [1]	H 05 VV-F	18.70	45	1.910	718.36	50 or 1000
4 x 16*	H 05 VV-F	20.20	61	1.210	908.02	50 or 1000
4 x 16* [1]	H 05 VV-F	22.20	61	1.210	1,057.69	50 or 1000
5 x 0.75	H 05 VV-F	8.10	6	26.000	101.02	100
5 x 0.75 [1]	H 05 VV-F	8.90	6	26.000	124.94	100
5 x 1	H 05 VV-F	9.10	10	19.500	129.19	100
5 x 1 [1]	H 05 VV-F	10.10	10	19.500	162.34	100
5 x 1.5	H 05 VV-F	10.60	15	13.300	179.37	100
5 x 1.5 [1]	H 05 VV-F	11.20	15	13.300	207.88	100
5 x 2.5	H 05 VV-F	12.20	20	7.980	254.86	100
5 x 2.5 [1]	H 05 VV-F	13.00	20	7.980	295.25	100
5 x 4	H 05 VV-F	13.90	26	4.950	357.08	100
5 x 4 [1]	H 05 VV-F	14.90	26	4.950	413.87	100
5 x 6*	H 05 VV-F	15.30	33	3.300	471.58	50 or 1000
5 x 6* [1]	H 05 VV-F	16.50	33	3.300	544.03	50 or 1000
5 x 10*	H 05 VV-F	18.80	45	1.910	752.89	50 or 1000
5 x 10* [1]	H 05 VV-F	20.40	45	1.910	871.09	50 or 1000
5 x 16 *	H 05 VV-F	21.70	61	1.210	1,090.02	50 or 1000
5 x 16 *[1]	H 05 VV-F	23.70	61	1.210	1,253.54	50 or 1000

* Özel (special)
[1] dolgulu (with filler)

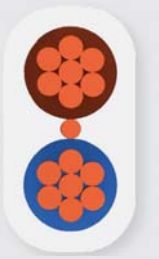
PVC İZOLELİ, YASSI, BAKIR İLETKENLİ KABLOLAR
PVC INSULATED, FLAT CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

TWIN FLAT 6242Y 300/500 V BS 6004

1- Bir veya çok telli bakır iletken
2- PVC izole
3- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC outer sheath



TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
Test gerilimi (AC): 2 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV
Installation temp. min: 5 °C

KULLANMA YERİ
Kuru ve rutubetli yerlerde, sabit aydınlatma tesisatlarında boru içerisinde. Toprak altına döşenmez. Sabit olarak sıva üzere ve sıva altında kullanılır.

APPLICATIONS
In dry and damp rooms, locations and store rooms where subject to fire and explosions hazards, but not for underground laying. For permanent installation clear from in and under plaster.

Teknik Özellikler / Technical Features

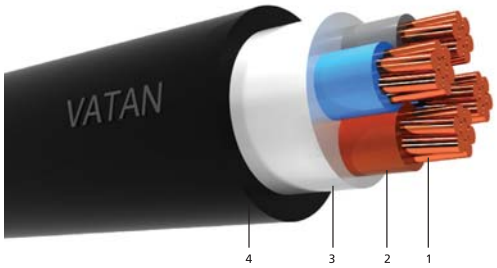
Normal Kesit	Tip	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Type*	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2		mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
2x1	6242Y	0,9	19	11	18,1	53	100
2x1,5	6242Y	0,9	25	16	12,1	70	100
2x2,5	6242Y	1	34	21	7,41	105	100
2x1+1	6242Y	0,9	19	11	18,1	76	100
2x1,5+1	6242Y	0,9	25	16	12,1	100	100
2x2,5+1,5	6242Y	1	34	21	7,41	150	100
3x1	6242Y	0,9	19	11	18,1	68	100
3x1,5	6242Y	0,9	25	16	12,1	85	100
3x2,5	6242Y	1	34	21	7,41	120	100
3x1+1	6242Y	0,9	19	11	18,1	91	100
3x1,5+1	6242Y	0,9	25	16	12,1	115	100
3x2,5+1,5	6242Y	1	34	21	7,41	170	100

0.6/1 kV PVC İZOLELİ, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED CABLES
WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVV	0.6/1 kV	TS IEC 60502-1
NYY	0.6/1 kV	VDE 0276-603



1- Bir veya çok telli bakır iletken
2- PVC izole
3- PVC dolgu
4- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC filler
4- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
(+≤ 5 sn)
Test gerilimi (AC): 2 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
Test voltage (AC): 2kV
(for +≤ 5 sec.)
Installation temp. min: 5 °C

KULLANMA YERİ
Mekanik zorlanmaların bulunmadığı yerlerde, enerji istasyonlarında, umumi inşaat kabloları olarak dahili tesislerde, kablo kanallarında endüstriyel tesislerde, künk ve borular içinde kullanılır.

APPLICATIONS
At power distribution stations, house hold premises, at industrial plants in cable ducts and pipes. Where there is no risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit / *Rated Cross Section*	Kablo Dış Çapı / *Overall Diameter Of Cable*	Akım Taşıma Kapasitesi / *Current Carrying Capacity*				İletken DC Direnci (20 °C) / *Conductor DC Resistance at (20°C)*	Net Ağırlık / *Net Weight*	Sevk Uzunluğu / *Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 1.5 re	5.80	21	27	21	27	12.100	50.13	1000
1 x 2.5 re	6.20	27	35	28	35	7.410	62.61	1000
1 x 4 re	7.00	37	46	38	45	4.610	85.58	1000
1 x 6 re	7.50	46	57	48	57	3.080	108.12	1000
1 x 1.5 rm	6.00	21	27	21	27	12.100	52.86	1000
1 x 2.5 rm	6.40	27	35	28	35	7.410	65.53	1000
1 x 4 rm	7.40	37	46	38	45	4.610	92.25	1000
1 x 6 rm	8.00	46	57	48	57	3.080	117.09	1000
1 x 10 rm	8.60	64	76	65	76	1.830	157.55	1000
1 x 16 rm	9.60	84	98	87	97	1.150	221.01	1000
1 x 25 rm	11.10	114	127	117	125	0.727	322.69	1000
1 x 35 rm	12.20	140	152	144	150	0.524	422.38	1000
1 x 50 rm	13.80	172	180	177	178	0.387	562.74	1000
1 x 70 rm	15.60	218	220	225	218	0.268	772.55	1000
1 x 95 rm	18.00	270	264	278	260	0.193	1,053.09	1000
1 x 120 rm	19.40	315	300	325	296	0.153	1,291.01	1000
1 x 150 rm	21.40	362	336	373	331	0.124	1,588.30	1000
1 x 185 rm	23.80	420	379	433	374	0.099	1,975.47	1000
1 x 240 rm	26.70	503	439	518	432	0.075	2,554.83	1000
1 x 300 rm	29.40	580	494	598	486	0.060	3,168.31	500
1 x 400 rm	33.00	674	558	695	549	0.047	4,057.22	500
1 x 500 rm	36.60	781	629	806	618	0.037	5,121.06	500
1 x 630 rm	40.20	901	704	930	692	0.028	6,463.22	500

0.6/1 kV PVC İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVV	0.6/1 kV	TS IEC 60502-1
NYY	0.6/1 kV	VDE 0276-603

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
2 x 1.5 re	11.60	23	27	23	27	12.100	192.77	1000
2 x 2.5 re	12.40	30	36	30	36	7.410	231.44	1000
2 x 4 re	14.00	40	47	40	47	4.610	307.61	1000
2 x 6 re	15.00	51	59	51	59	3.080	373.50	1000
2 x 1.5 rm	12.00	23	27	23	27	12.100	204.98	1000
2 x 2.5 rm	12.80	30	36	30	36	7.410	244.49	1000
2 x 4 rm	14.80	40	47	40	47	4.610	337.47	1000
2 x 6 rm	16.00	51	59	51	59	3.080	413.69	1000
2 x 10 rm	17.20	70	80	70	80	1.830	523.27	1000
2 x 16 rm	19.20	93	104	93	104	1.150	702.65	1000
2 x 25 rm	22.20	123	134	123	134	0.727	995.68	1000
2 x 35 rm	24.40	151	162	151	162	0.524	1,269.22	1000
2 x 50 rm	27.80	182	191	182	191	0.387	1,683.51	1000
2 x 70 rm	31.60	230	236	230	236	0.268	2,276.14	1000
2 x 95 rm	36.40	280	281	280	281	0.193	3,072.56	1000
2 x 120 rm	39.40	325	321	325	321	0.153	3,721.83	1000
2 x 150 rm	43.60	371	361	371	361	0.124	4,584.18	1000
2 x 185 rm	48.40	424	406	424	406	0.099	5,678.72	1000
2 x 240 rm	54.60	501	470	501	470	0.075	7,331.76	1000
2 x 300 rm	60.40	572	528	572	528	0.060	9,073.04	500
2 x 400 rm	67.20	634	541	634	541	0.047	11,455.94	500
3 x 1.5 re	12.10	19	23	19	23	12.100	217.01	500
3 x 2.5 re	13.00	26	31	26	31	7.410	266.54	500
3 x 4 re	14.70	34	40	34	40	4.610	358.39	500
3 x 6 re	15.80	44	50	44	50	3.080	443.46	500
3 x 1.5 rm	124.69	19	23	19	23	12.100	232.89	500
3 x 2.5 rm	141.03	26	31	26	31	7.410	279.84	500
3 x 4 rm	191.13	34	40	34	40	4.610	393.11	500
3 x 6 rm	224.32	44	50	44	50	3.080	489.15	1000
3 x 10 rm	260.16	60	68	60	68	1.830	633.84	1000
3 x 16 rm	323.65	79	88	79	88	1.150	863.20	1000
3 x 25 rm	437.44	105	114	105	114	0.727	1,244.50	1000
3 x 35 rm	530.93	129	137	129	137	0.524	1,605.73	1000
3 x 50 rm	697.46	162	168	162	168	0.387	2,148.59	1000
3 x 70 rm	902.59	203	206	203	206	0.268	2,928.41	1000
3 x 95 rm	1,194.59	250	247	250	247	0.193	3,957.72	1000
3 x 120 rm	1,425.31	289	281	289	281	0.153	4,865.74	1000
3 x 150 rm	1,712.87	330	315	330	315	0.124	5,936.67	500
3 x 185 rm	2,115.56	381	356	381	356	0.099	7,368.19	500
3 x 240 rm	2,687.83	451	412	451	412	0.075	9,523.74	500
3 x 300 rm	3,287.75	517	464	517	464	0.060	11,801.36	500
3 x 400 rm	4,151.06	594	524	594	524	0.047	15,083.93	500
3 x 10 + 6 rm	19.30	68	77	68	77	1.830	708.88	1000
3 x 16 + 10 rm	21.50	90	99	90	99	1.150	960.21	1000
3 x 25 + 16 rm	24.80	121	128	121	128	0.727	1,426.29	1000
3 x 35 + 16 rm	27.00	149	154	149	154	0.524	1,777.80	1000
3 x 50 + 25 rm	31.40	173	173	173	173	0.387	2,446.18	1000
3 x 70 + 35 rm	35.20	215	212	215	212	0.268	3,278.57	1000
3 x 95 + 50 rm	40.60	266	255	266	255	0.193	4,443.76	1000
3 x 120 + 70 rm	44.70	308	289	308	289	0.153	5,568.87	500
3 x 150 + 70 rm	48.30	357	327	357	327	0.124	6,590.07	500
3 x 185 + 95 rm	54.50	405	366	405	366	0.099	8,368.36	500
3 x 240 + 120 rm	60.60	482	425	482	425	0.075	10,649.16	500

0.6/1 kV PVC İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVV	0.6/1 kV	TS IEC 60502-1
NYY	0.6/1 kV	VDE 0276-603

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
3 x 300 + 150 rm	67.00	552	479	552	479	0.060	13,185.72	500
3 x 400 + 185 rm	74.90	643	545	643	545	0.047	16,742.04	500
4 x 1.5 re	12.90	22	27	22	27	12.100	252.59	1000
4 x 2.5 re	13.90	29	35	29	35	7.410	314.17	1000
4 x 4 re	15.80	39	46	39	46	4.610	428.08	1000
4 x 6 re	17.00	50	57	50	57	3.080	534.18	1000
4 x 1.5 rm	13.40	22	27	22	27	12.100	269.24	1000
4 x 2.5 rm	14.40	29	35	29	35	7.410	332.08	1000
4 x 4 rm	16.80	39	46	39	46	4.610	469.28	1000
4 x 6 rm	18.20	50	57	50	57	3.080	587.27	1000
4 x 10 rm	19.70	68	77	68	77	1.830	774.82	1000
4 x 16 rm	22.10	90	99	90	99	1.150	1,070.49	1000
4 x 25 rm	25.70	121	128	121	128	0.727	1,549.64	1000
4 x 35 rm	28.60	149	154	149	154	0.524	2,027.20	1000
4 x 50 rm	33.30	173	173	173	173	0.387	2,764.51	1000
4 x 70 rm	37.30	215	212	215	212	0.268	3,711.46	1000
4 x 95 rm	43.50	266	255	266	255	0.193	5,093.96	1000
4 x 120 rm	47.10	308	289	308	289	0.153	6,212.31	1000
4 x 150 rm	51.80	357	327	357	327	0.124	7,603.25	500
4 x 185 rm	57.90	405	366	405	366	0.099	9,494.03	500
4 x 240 rm	64.90	482	425	482	425	0.075	12,210.67	500
4 x 300 rm	72.20	552	479	552	479	0.060	15,226.08	500
4 x 400 rm	80.50	643	545	643	545	0.047	19,323.86	500
4 x 10 + 6 rm	21.00	68	77	68	77	1.830	866.55	1000
4 x 16 + 10 rm	23.50	90	99	90	99	1.150	1,221.25	1000
4 x 25 + 16 rm	27.40	121	128	121	128	0.727	1,774.87	1000
4 x 35 + 16 rm	30.00	149	154	149	154	0.524	2,240.54	1000
4 x 50 + 25 rm	34.90	173	173	173	173	0.387	3,078.34	1000
4 x 70 + 35 rm	39.30	215	212	215	212	0.268	4,148.59	1000
4 x 95 + 50 rm	45.80	266	255	266	255	0.193	5,687.58	1000
4 x 120 + 70 rm	49.80	308	289	308	289	0.153	7,023.12	500
4 x 150 + 70 rm	54.50	357	327	357	327	0.124	8,450.15	500
4 x 185 + 95 rm	60.90	405	366	405	366	0.099	10,608.53	500
4 x 240 + 120 rm	67.90	482	425	482	425	0.075	13,549.03	500
4 x 300 + 150 rm	75.70	552	479	552	479	0.060	16,911.33	500
4 x 400 + 185 rm	84.20	643	545	643	545	0.047	21,383.78	500
5 x 1.5 re	13.70	23	27	23	27	12.100	290.04	1000
5 x 2.5 re	14.80	30	36	30	36	7.410	364.17	1000
5 x 4 re	17.00	41	47	41	47	4.610	506.08	1000
5 x 6 re	18.30	52	59	52	59	3.080	634.27	1000
5 x 1.5 rm	14.30	23	27	23	27	12.100	311.43	1000
5 x 2.5 rm	15.40	30	36	30	36	7.410	387.25	1000
5 x 4 rm	18.10	41	47	41	47	4.610	554.75	1000
5 x 6 rm	19.70	52	59	52	59	3.080	701.42	1000
5 x 10 rm	21.30	71	78	71	78	1.830	928.43	1000
5 x 16 rm	24.00	94	101	94	101	1.150	1,294.11	1000
5 x 25 rm	28.30	126	131	126	131	0.727	1,712.08	1000
5 x 35 rm	31.80	155	157	155	157	0.524	2,293.49	1000
5 x 50 rm	36.50	189	185	189	185	0.387	3,078.84	1000
5 x 70 rm	41.10	215	212	215	212	0.268	4,216.51	1000
5 x 95 rm	47.80	266	255	266	255	0.193	5,747.52	1000
5 x 120 rm	52.00	308	289	308	289	0.153	7,115.53	500
5 x 150 rm	57.60	357	327	357	327	0.124	8,780.27	500

0.6/1 kV PVC İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YVV	0.6/1 kV	TS IEC 60502-1
NYY	0.6/1 kV	VDE 0276-603

Teknik Özellikler / Technical Features

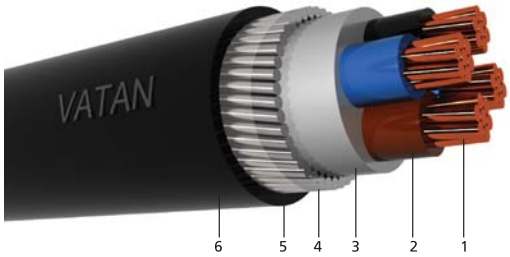
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ⁂	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ⁂	Ohm / Km	Kg	Mt
5 x 185 rm	64.00	405	366	405	366	0.099	10,853.99	500
5 x 240 rm	72.10	482	425	482	425	0.075	14,052.51	500
5 x 300 rm	80.00	552	479	552	479	0.060	17,355.63	500
5 x 400 rm	89.20	643	545	643	545	0.047	22,182.83	500
7 x 1.5 re	14.60	14	10	14	10	12.100	341.33	1000
7 x 2.5 re	15.80	19	16	19	16	7.410	434.97	1000
7 x 1.5 rm	15.20	14	10	14	10	12.100	363.52	1000
7 x 2.5 rm	16.40	19	16	19	16	7.410	458.90	1000
10 x 1.5 re	16.10	12	9	12	9	12.100	429.47	1000
10 x 2.5 re	17.50	16	13	16	13	7.410	556.44	1000
10 x 1.5 rm	16.80	12	9	12	9	12.100	457.80	1000
10 x 2.5 rm	18.20	16	13	16	13	7.410	587.13	1000
12 x 1.5 re	17.30	12	9	12	9	12.100	501.57	1000
12 x 2.5 re	18.90	16	13	16	13	7.410	656.26	1000
12 x 1.5 rm	18.10	12	9	12	9	12.100	536.65	1000
12 x 2.5 rm	19.70	16	13	16	13	7.410	694.48	1000
14 x 1.5 re	18.20	10	8	10	8	12.100	562.37	1000
14 x 2.5 re	19.90	14	12	14	12	7.410	739.08	1000
14 x 1.5 rm	19.10	10	8	10	8	12.100	604.14	1000
14 x 2.5 rm	20.80	14	12	14	12	7.410	784.62	1000
19 x 1.5 re	20.60	9	7	9	7	12.100	733.47	1000
19 x 2.5 re	22.60	12	11	12	11	7.410	971.73	1000
19 x 1.5 rm	21.60	9	7	9	7	12.100	785.70	1000
19 x 2.5 rm	23.60	12	11	12	11	7.410	1,028.85	1000
21 x 1.5 re	21.50	9	7	9	7	12.100	802.98	1000
21 x 2.5 re	23.70	12	11	12	11	7.410	1,072.13	1000
21 x 1.5 rm	22.60	9	7	9	7	12.100	863.46	1000
21 x 2.5 rm	24.70	12	11	12	11	7.410	1,131.57	1000
24 x 1.5 re	22.40	8	6	8	6	12.100	882.78	1000
24 x 2.5 re	24.70	11	10	11	10	7.410	1,183.02	1000
24 x 1.5 rm	23.60	8	6	8	6	12.100	951.66	1000
24 x 2.5 rm	25.80	11	10	11	10	7.410	1,251.39	1000
30 x 1.5 re	24.50	8	6	8	6	12.100	1,070.29	1000
30 x 2.5 re	27.30	11	10	11	10	7.410	1,457.15	1000
30 x 1.5 rm	25.80	8	6	8	6	12.100	1,151.52	1000
30 x 2.5 rm	28.50	11	10	11	10	7.410	1,539.20	1000
40 x 1.5 re	27.70	7	5	7	5	12.100	1,384.91	1000
40 x 2.5 re	30.90	9	8	9	8	7.410	1,893.36	1000
40 x 1.5 rm	29.20	7	5	7	5	12.100	1,490.83	1000
40 x 2.5 rm	32.90	9	8	9	8	7.410	2,054.53	1000
48 x 1.5 re	30.90	7	5	7	5	12.100	1,713.02	1000
48 x 2.5 re	34.90	9	8	9	8	7.410	2,378.52	1000
48 x 1.5 rm	33.20	7	5	7	5	12.100	1,901.40	1000
48 x 2.5 rm	36.70	9	8	9	8	7.410	2,537.80	1000
61 x 1.5 re	33.60	6	4	6	4	12.100	2,061.57	1000
61 x 2.5 re	37.40	8	7	8	7	7.410	2,815.68	1000
61 x 1.5 rm	35.40	6	4	6	4	12.100	2,215.01	1000
61 x 2.5 rm	39.40	8	7	8	7	7.410	3,004.36	1000

0.6/1 kV PVC İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVZ2V 0.6/1 kV TS IEC 60502-1
NYRY 0.6/1 kV VDE 0271



1- Bir veya çok telli bakır iletken
2- PVC izole
3- PVC dolgu
4- Galvanizli yuvarlak çelik tel
5- Polyester bant
6- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC filler
4- Galvanized round steel wires
5- Polyester tape
6- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
(+≤ 5 sn)
Test gerilimi (AC): 3.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
(for +≤ 5 second)
Test voltage (AC): 3.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Mekanik zorlanmaların bulunduğu kablo kanallarında kumanda ve sinyal devrelerinde ve suda sabit olarak kullanılır.

APPLICATIONS
Switching panels, urban networks, in ducts where there is a risk of mechanical damage, in water for stationary conditions.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
1 x 10 rm	11.00	64	76	1.830	275.26	1000
1 x 16 rm	12.00	84	98	1.150	356.48	1000
1 x 25 rm	13.50	114	127	0.727	484.86	1000
1 x 35 rm	14.60	140	152	0.524	602.53	1000
1 x 50 rm	17.10	172	180	0.387	871.83	1000
1 x 70 rm	18.70	218	220	0.268	1,116.11	1000
1 x 95 rm	20.90	270	264	0.193	1,449.64	1000
1 x 120 rm	23.00	315	300	0.153	1,827.87	1000
1 x 150 rm	24.80	362	336	0.124	2,180.37	1000
1 x 185 rm	27.20	420	379	0.099	2,634.03	1000
1 x 240 rm	30.10	503	439	0.075	3,296.02	1000
1 x 300 rm	33.80	580	494	0.060	4,227.16	500
1 x 400 rm	37.20	674	558	0.047	5,229.81	500
1 x 500 rm	40.80	781	629	0.037	6,421.98	500
1 x 630 rm	45.60	901	704	0.028	8,264.03	500
2 x 1.5 re	13.20	23	27	12.100	328.91	1000
2 x 2.5 re	14.00	30	36	7.410	379.47	1000
2 x 4 re	16.50	40	47	4.610	579.73	1000
2 x 6 re	17.50	51	59	3.080	664.95	1000
2 x 1.5 rm	13.60	23	27	12.100	345.11	1000
2 x 2.5 rm	14.40	30	36	7.410	400.46	1000
2 x 4 rm	17.30	40	47	4.610	628.98	1000
2 x 6 rm	18.50	51	59	3.080	734.23	1000
2 x 10 rm	19.70	70	80	1.830	872.76	1000

0.6/1 kV PVC İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVZ2V 0.6/1 kV TS IEC 60502-1
NYRY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
2 x 16 rm	22.40	93	104	1.150	1,204.21	1000
2 x 25 rm	25.40	123	134	0.727	1,592.35	1000
2 x 35 rm	27.80	151	162	0.524	1,942.32	1000
2 x 50 rm	31.20	182	191	0.387	2,470.69	1000
2 x 70 rm	36.00	230	236	0.268	3,410.51	1000
2 x 95 rm	40.60	280	281	0.193	4,369.71	1000
2 x 120 rm	43.60	325	321	0.153	5,121.33	1000
2 x 150 rm	49.00	371	361	0.124	6,541.10	500
2 x 185 rm	53.60	424	406	0.099	7,852.20	500
2 x 240 rm	59.80	501	470	0.075	9,784.27	500
2 x 300 rm	65.60	572	528	0.060	11,804.70	500
2 x 400 rm	73.90	634	541	0.047	15,302.45	500
3 x 1.5 re	13.70	19	23	12.100	361.18	1000
3 x 2.5 re	14.60	26	31	7.410	422.61	1000
3 x 4 re	17.20	34	40	4.610	640.37	1000
3 x 6 re	18.30	44	50	3.080	754.45	1000
3 x 1.5 rm	14.20	19	23	12.100	385.01	1000
3 x 2.5 rm	15.00	26	31	7.410	443.88	1000
3 x 4 rm	18.10	34	40	4.610	704.18	1000
3 x 6 rm	19.40	44	50	3.080	829.30	1000
3 x 10 rm	20.70	60	68	1.830	1,002.97	1000
3 x 16 rm	23.50	79	88	1.150	1,396.80	1000
3 x 25 rm	27.00	105	114	0.727	1,901.86	1000
3 x 35 rm	29.40	129	137	0.524	2,327.72	1000
3 x 50 rm	34.00	162	168	0.387	3,191.80	1000
3 x 70 rm	38.10	203	206	0.268	4,124.08	1000
3 x 95 rm	43.20	250	247	0.193	5,358.39	1000
3 x 120 rm	47.80	289	281	0.153	6,761.75	500
3 x 150 rm	52.10	330	315	0.124	8,055.39	500
3 x 185 rm	57.30	381	356	0.099	9,729.86	500
3 x 240 rm	63.90	451	412	0.075	12,207.11	500
3 x 300 rm	70.10	517	464	0.060	14,767.97	500
3 x 400 rm	79.40	594	524	0.047	19,253.20	500
3 x 10 + 6 rm	22.50	68	77	1.830	1,211.00	1000
3 x 16 + 10 rm	24.70	90	99	1.150	1,576.32	1000
3 x 25 + 16 rm	28.20	121	128	0.727	2,116.25	1000
3 x 35 + 16 rm	30.40	149	154	0.524	2,533.80	1000
3 x 50 + 25 rm	35.60	173	173	0.387	3,564.80	1000
3 x 70 + 35 rm	39.60	215	212	0.268	4,543.57	1000
3 x 95 + 50 rm	46.00	266	255	0.193	6,281.44	1000
3 x 120 + 70 rm	50.10	308	289	0.153	7,606.28	500
3 x 150 + 70 rm	53.50	357	327	0.124	8,765.73	500
3 x 185 + 95 rm	59.70	405	366	0.099	10,824.03	500
3 x 240 + 120 rm	65.80	482	425	0.075	13,384.86	500
3 x 300 + 150 rm	73.70	552	479	0.060	17,037.68	500
3 x 400 + 185 rm	81.80	643	545	0.047	21,077.33	500
4 x 1.5 re	14.50	22	27	12.100	408.71	1000
4 x 2.5 re	16.40	29	35	7.410	576.81	1000
4 x 4 re	18.30	39	46	4.610	739.18	1000
4 x 6 re	19.50	50	57	3.080	874.33	1000
4 x 1.5 rm	15.00	22	27	12.100	433.34	1000
4 x 2.5 rm	16.90	29	35	7.410	614.08	1000

0.6/1 kV PVC İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVZ2V 0.6/1 kV TS IEC 60502-1
NYRY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
4 x 4 rm	19.30	39	46	4.610	809.54	1000
4 x 6 rm	20.70	50	57	3.080	956.66	1000
4 x 10 rm	22.90	68	77	1.830	1,292.75	1000
4 x 16 rm	25.30	90	99	1.150	1,667.69	1000
4 x 25 rm	29.10	121	128	0.727	2,271.80	1000
4 x 35 rm	32.00	149	154	0.524	2,831.63	1000
4 x 50 rm	37.50	173	173	0.387	3,935.60	1000
4 x 70 rm	41.50	215	212	0.268	5,035.17	1000
4 x 95 rm	48.90	266	255	0.193	7,053.06	1000
4 x 120 rm	52.50	308	289	0.153	8,332.12	500
4 x 150 rm	57.00	357	327	0.124	9,938.18	500
4 x 185 rm	63.10	405	366	0.099	12,109.13	500
4 x 240 rm	70.30	482	425	0.075	15,178.46	500
4 x 300 rm	79.10	552	479	0.060	19,431.53	500
4 x 400 rm	87.20	643	545	0.047	24,001.59	500
4 x 10 + 6 rm	24.20	68	77	1.830	1,432.17	1000
4 x 16 + 10 rm	26.90	90	99	1.150	1,879.48	1000
4 x 25 + 16 rm	30.80	121	128	0.727	2,547.14	1000
4 x 35 + 16 rm	34.20	149	154	0.524	3,284.38	1000
4 x 50 + 25 rm	39.30	173	173	0.387	4,343.30	1000
4 x 70 + 35 rm	43.50	215	212	0.268	5,549.91	1000
4 x 95 + 50 rm	51.20	266	255	0.193	7,767.83	1000
4 x 120 + 70 rm	55.20	308	289	0.153	9,303.22	500
4 x 150 + 70 rm	59.70	357	327	0.124	10,905.57	500
4 x 185 + 95 rm	66.10	405	366	0.099	13,344.77	500
4 x 240 + 120 rm	74.60	482	425	0.075	17,463.58	500
4 x 300 + 150 rm	82.40	552	479	0.060	21,274.71	500
4 x 400 + 185 rm	91.10	643	545	0.047	26,297.47	500
5 x 1.5 re	16.20	23	27	12.100	552.71	1000
5 x 2.5 re	17.30	30	36	7.410	655.86	1000
5 x 4 re	19.50	41	47	4.610	846.31	1000
5 x 6 re	20.80	52	59	3.080	1,003.58	1000
5 x 1.5 rm	16.80	23	27	12.100	583.85	1000
5 x 2.5 rm	17.90	30	36	7.410	688.70	1000
5 x 4 rm	20.60	41	47	4.610	924.20	1000
5 x 6 rm	22.90	52	59	3.080	1,219.59	1000
5 x 10 rm	24.50	71	78	1.830	1,494.08	1000
5 x 16 rm	27.40	94	101	1.150	1,967.77	1000
5 x 25 rm	31.70	126	131	0.727	2,709.44	1000
5 x 35 rm	36.20	155	157	0.524	3,657.96	1000
5 x 50 rm	40.70	189	185	0.387	4,682.92	1000
5 x 70 rm	46.50	215	212	0.268	6,412.64	1000
5 x 95 rm	53.20	266	255	0.193	8,421.00	1000
5 x 120 rm	57.40	308	289	0.153	10,033.74	500
5 x 150 rm	62.80	357	327	0.124	12,073.53	500
5 x 185 rm	69.20	405	366	0.099	14,636.70	500
5 x 240 rm	79.00	482	425	0.075	19,385.34	500
5 x 300 rm	86.70	552	479	0.060	23,490.66	500
5 x 400 rm	95.90	643	545	0.047	29,149.61	500
7 x 1.5 re	17.10	14	10	12.100	623.53	1000
7 x 2.5 re	18.30	19	16	7.410	746.22	1000
7 x 1.5 rm	17.70	14	10	12.100	665.13	1000

0.6/1 kV PVC İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YVZ2V 0.6/1 kV TS IEC 60502-1
NYRY 0.6/1 kV VDE 0271

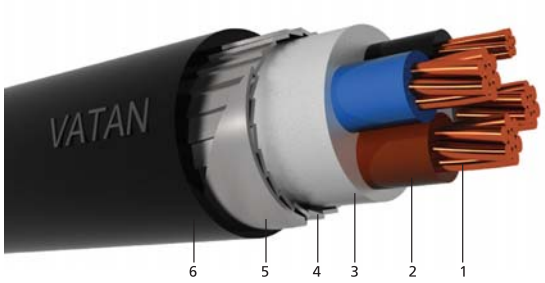
Teknik Özellikler / Technical Features						
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**		**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***		***Conductor DC Resistance at (20 °C)***	***Net Weight***	***Delivery Lenght***
mm^2	**mm**	**Havada Air (A)**	**Toprakta Ground (A)**	**Ohm / Km**	**Kg / Km**	**Mt**
7 x 2.5 rm	18.90	19	16	7.410	789.60	1000
10 x 1.5 re	18.60	12	9	12.100	750.58	1000
10 x 2.5 re	20.00	16	13	7.410	906.69	1000
10 x 1.5 rm	19.30	12	9	12.100	798.40	1000
10 x 2.5 rm	20.70	16	13	7.410	956.90	1000
12 x 1.5 re	19.80	12	9	12.100	851.84	1000
12 x 2.5 re	22.10	16	13	7.410	1,158.71	1000
12 x 1.5 rm	20.60	12	9	12.100	906.45	1000
12 x 2.5 rm	22.90	16	13	7.410	1,213.01	1000
14 x 1.5 re	20.70	10	8	12.100	932.16	1000
14 x 2.5 re	23.10	14	12	7.410	1,273.39	1000
14 x 1.5 rm	22.30	10	8	12.100	1,106.88	1000
14 x 2.5 rm	24.00	14	12	7.410	1,335.07	1000
19 x 1.5 re	23.80	9	7	12.100	1,283.89	1000
19 x 2.5 re	25.80	12	11	7.410	1,585.72	1000
19 x 1.5 rm	24.80	9	7	12.100	1,368.11	1000
19 x 2.5 rm	27.00	12	11	7.410	1,687.56	1000
21 x 1.5 re	24.70	9	7	12.100	1,385.22	1000
21 x 2.5 re	27.10	12	11	7.410	1,730.70	1000
21 x 1.5 rm	25.80	9	7	12.100	1,477.73	1000
21 x 2.5 rm	28.10	12	11	7.410	1,822.71	1000
24 x 1.5 re	21.00	8	6	12.100	978.93	1000
24 x 2.5 re	25.60	11	10	7.410	1,481.18	1000
24 x 1.5 rm	21.00	8	6	12.100	978.93	1000
24 x 2.5 rm	25.60	11	10	7.410	1,481.18	1000
30 x 1.5 re	27.90	8	6	12.100	1,761.47	1000
30 x 2.5 re	30.70	11	10	7.410	2,230.77	1000
30 x 1.5 rm	29.20	8	6	12.100	1,875.55	1000
30 x 2.5 rm	31.90	11	10	7.410	2,345.71	1000
40 x 1.5 re	25.60	7	5	12.100	1,511.86	1000
40 x 2.5 re	31.10	9	8	7.410	2,159.30	1000
40 x 1.5 rm	33.60	7	5	12.100	2,525.90	1000
40 x 2.5 rm	37.10	9	8	7.410	3,228.35	1000
48 x 1.5 re	35.10	7	5	12.100	2,809.11	1000
48 x 2.5 re	39.30	9	8	7.410	3,645.93	1000
48 x 1.5 rm	37.40	7	5	12.100	3,075.52	1000
48 x 2.5 rm	40.90	9	8	7.410	3,840.01	1000
61 x 1.5 re	37.80	6	4	12.100	3,261.12	1000
61 x 2.5 re	41.60	8	7	7.410	4,143.63	1000
61 x 1.5 rm	39.80	6	4	12.100	3,206.71	1000
61 x 2.5 rm	43.10	8	7	7.410	3,509.46	1000

0.6/1 kV PVC İZOLELİ, YASSI ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED FLAT STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVZ3V 0.6/1 kV TS IEC 60502-1
NYFGbY 0.6/1 kV VDE 0271



1- Bir veya çok telli bakır iletken
2- PVC izole
3- PVC dolgu
4- Galvanizli yassı çelik tel
5- Galvanizli çelik bant
6- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC filler
4- Galvanized flat steel wires
5- Galvanized steel tape
6- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
(+≤ 5 sn)
Test gerilimi (AC): 3.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
(for +≤ 5 second)
Test voltage (AC): 3.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Mekanik zorlanmaların bulunduğu dahili ve harici yerlerde kullanılır.

APPLICATIONS
Switching stations, industrial plants, where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
1 x 95 rm	20.00	270	264	0.193	1,434.18	1000
1 x 120 rm	21.40	315	300	0.153	1,704.79	1000
1 x 150 rm	23.20	362	336	0.124	2,052.17	1000
1 x 185 rm	25.40	420	379	0.099	2,464.54	1000
1 x 240 rm	28.30	503	439	0.075	3,107.39	1000
1 x 300 rm	31.20	580	494	0.060	3,823.51	500
1 x 400 rm	34.60	674	558	0.047	4,764.17	500
1 x 500 rm	38.40	781	629	0.037	5,938.28	500
1 x 630 rm	42.00	901	704	0.028	7,348.98	500
2 x 10 rm	18.80	70	80	1.830	855.91	1000
2 x 16 rm	20.80	93	104	1.150	1,094.33	1000
2 x 25 rm	23.80	123	134	0.727	1,450.95	1000
2 x 35 rm	26.20	151	162	0.524	1,796.76	1000
2 x 50 rm	29.60	182	191	0.387	2,277.95	1000
2 x 70 rm	33.40	230	236	0.268	2,964.46	1000
2 x 95 rm	38.20	280	281	0.193	3,885.15	1000
2 x 120 rm	41.00	325	321	0.153	4,579.96	1000
2 x 150 rm	45.40	371	361	0.124	5,557.87	1000
2 x 185 rm	50.00	424	406	0.099	6,728.35	500
2 x 240 rm	56.20	501	470	0.075	8,535.20	500
2 x 300 rm	62.00	572	528	0.060	10,403.74	500
2 x 400 rm	69.00	634	541	0.047	12,975.51	500
3 x 10 rm	19.80	60	68	1.830	996.28	1000
3 x 16 rm	21.90	79	88	1.150	1,285.21	1000

0.6/1 kV PVC İZOLELİ, YASSI ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED FLAT STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YVZ3V 0.6/1 kV TS IEC 60502-1
NYFGbY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
3 x 25 rm	25.20	105	114	0.727	1,731.60	1000
3 x 35 rm	27.80	129	137	0.524	2,166.84	1000
3 x 50 rm	31.40	162	168	0.387	2,788.92	1000
3 x 70 rm	35.70	203	206	0.268	3,679.13	1000
3 x 95 rm	40.60	250	247	0.193	4,815.48	1000
3 x 120 rm	44.40	289	281	0.153	5,810.66	500
3 x 150 rm	48.50	330	315	0.124	6,977.73	500
3 x 185 rm	53.70	381	356	0.099	8,536.53	500
3 x 240 rm	60.30	451	412	0.075	10,851.56	500
3 x 300 rm	66.50	517	464	0.060	13,262.07	500
3 x 400 rm	74.30	594	524	0.047	16,700.81	500
3 x 10 + 6 rm	20.90	68	77	1.830	1,101.54	1000
3 x 16 + 10 rm	23.10	90	99	1.150	1,412.90	1000
3 x 25 + 16 rm	26.60	121	128	0.727	1,956.64	1000
3 x 35 + 16 rm	28.60	149	154	0.524	2,355.66	1000
3 x 50 + 25 rm	33.20	173	173	0.387	3,134.80	1000
3 x 70 + 35 rm	37.00	215	212	0.268	4,061.42	1000
3 x 95 + 50 rm	42.40	266	255	0.193	5,354.51	1000
3 x 120 + 70 rm	46.50	308	289	0.153	6,575.34	500
3 x 150 + 70 rm	49.90	357	327	0.124	7,641.50	500
3 x 185 + 95 rm	56.10	405	366	0.099	9,574.58	500
3 x 240 + 120 rm	62.20	482	425	0.075	11,984.67	500
3 x 300 + 150 rm	68.80	552	479	0.060	14,709.97	500
3 x 400 + 185 rm	76.70	643	545	0.047	18,457.85	500
4 x 10 rm	21.30	68	77	1.830	1,169.24	1000
4 x 16 rm	23.70	90	99	1.150	1,525.86	1000
4 x 25 rm	27.50	121	128	0.727	2,109.62	1000
4 x 35 rm	30.40	149	154	0.524	2,651.68	1000
4 x 50 rm	34.90	173	173	0.387	3,471.12	1000
4 x 70 rm	39.10	215	212	0.268	4,529.83	1000
4 x 95 rm	45.30	266	255	0.193	6,069.45	1000
4 x 120 rm	48.90	308	289	0.153	7,281.12	500
4 x 150 rm	53.60	357	327	0.124	8,771.37	500
4 x 185 rm	59.70	405	366	0.099	10,794.47	500
4 x 240 rm	66.70	482	425	0.075	13,698.45	500
4 x 300 rm	74.00	552	479	0.060	16,878.12	500
4 x 400 rm	82.30	643	545	0.047	21,169.40	500
4 x 10 + 6 rm	22.60	68	77	1.830	1,292.04	1000
4 x 16 + 10 rm	25.10	90	99	1.150	1,674.06	1000
4 x 25 + 16 rm	29.20	121	128	0.727	2,368.46	1000
4 x 35 + 16 rm	31.60	149	154	0.524	2,882.27	1000
4 x 50 + 25 rm	36.70	173	173	0.387	3,860.00	1000
4 x 70 + 35 rm	40.90	215	212	0.268	5,008.15	1000
4 x 95 + 50 rm	47.60	266	255	0.193	6,725.24	1000
4 x 120 + 70 rm	51.60	308	289	0.153	8,156.24	500
4 x 150 + 70 rm	56.10	357	327	0.124	9,656.12	500
4 x 185 + 95 rm	62.70	405	366	0.099	12,000.35	500
4 x 240 + 120 rm	69.70	482	425	0.075	15,103.28	500
4 x 300 + 150 rm	77.30	552	479	0.060	18,596.08	500
4 x 400 + 185 rm	86.00	643	545	0.047	23,325.38	500
5 x 10 rm	22.90	71	78	1.830	1,355.24	1000
5 x 16 rm	25.60	94	101	1.150	1,808.38	1000
5 x 25 rm	30.10	126	131	0.727	2,528.20	1000

0.6/1 kV PVC İZOLELİ, YASSI ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED FLAT STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YVZ3V 0.6/1 kV TS IEC 60502-1
NYFGbY 0.6/1 kV VDE 0271

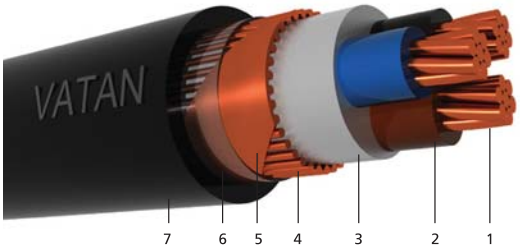
Teknik Özellikler / Technical Features						
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**		**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***		***Conductor DC Resistance at (20 °C)***	***Net Weight***	***Delivery Lenght***
mm^2	**mm**	**Havada Air (A)**	**Toprakta Ground (A)**	**Ohm / Km**	**Kg / Km**	**Mt**
5 x 35 rm	33.60	155	157	0.524	3,212.69	1000
5 x 50 rm	38.30	189	185	0.387	4,198.79	1000
5 x 70 rm	42.90	215	212	0.268	5,487.63	1000
5 x 95 rm	49.60	266	255	0.193	7,334.15	1000
5 x 120 rm	53.80	308	289	0.153	8,840.80	500
5 x 150 rm	59.20	357	327	0.124	10,729.64	500
5 x 185 rm	65.80	405	366	0.099	13,199.30	500
5 x 240 rm	73.90	482	425	0.075	16,831.60	500
5 x 300 rm	81.80	552	479	0.060	20,717.72	500
5 x 400 rm	91.00	643	545	0.047	26,002.94	500

0.6/1 kV PVC İZOLELİ, KONSANTRİK İLETKENLİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED CONCENTRIC CONDUCTOR SCREEN, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVCV	0.6/1 kV	TS IEC 60502-1
NYCY	0.6/1 kV	VDE 0271



1- Bir veya çok telli bakır iletken
2- PVC izole
3- PVC dolgu
4- Konsantrik iletken
5- Tutucu bakır bant
6- Polyester bant
7- PVC dış kılıf

1- Solid or stranded copper conductor
2- PVC insulation
3- PVC filler
4- Concentric screen
5- Copper tape as binder
6- Polyester tape
7- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 70 °C
Kısa devre sıcaklığı: 160 °C
(+≤ 5 sn)
Test gerilimi (AC): 3.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
(for +≤ 5 second)
Test voltage (AC): 3.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Enerji dağıtım şebekelerinde, şehir içi aydınlatmalarında kullanılır. Konsantrik iletkenleri sigorta vazifesi gördüğünden otomatik olarak devre kesilir ve kazayı önler.

APPLICATIONS
Energy distribution network, street lighting system. Because concentric conductor acts as a fuse there is no rick of accident.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
2 x 1.5 re	12.60	23	27	12.100	219.59	1000
2 x 2.5 re	13.40	30	36	7.410	268.23	1000
2 x 4 re	15.60	40	47	4.610	365.68	1000
2 x 6 re	16.60	51	59	3.080	451.06	1000
2 x 1.5 rm	13.00	23	27	12.100	232.41	1000
2 x 2.5 rm	13.80	30	36	7.410	281.89	1000
2 x 4 rm	15.80	40	47	4.610	391.99	1000
2 x 6 rm	17.00	51	59	3.080	487.61	1000
2 x 10 rm	18.20	70	80	1.830	634.12	1000
2 x 16 rm	20.20	93	104	1.150	871.03	1000
2 x 25 rm	23.20	123	134	0.727	1,168.69	1000
2 x 35 rm	26.90	151	162	0.524	1,475.18	1000
2 x 50 rm	30.30	182	191	0.387	1,980.90	1000
2 x 70 rm	34.10	230	236	0.268	2,665.68	1000
2 x 95 rm	39.30	280	281	0.193	3,619.66	1000
2 x 120 rm	43.00	325	321	0.153	4,459.80	1000
2 x 150 rm	47.20	371	361	0.124	5,332.20	1000
2 x 185 rm	52.10	424	406	0.099	6,670.40	1000
2 x 240 rm	58.30	501	470	0.075	8,573.85	500
2 x 300 rm	65.00	572	528	0.060	10,620.95	500
2 x 400 rm	71.80	634	541	0.047	13,328.43	1000
3 x 1.5 re	13.10	19	23	12.100	244.66	1000
3 x 2.5 re	14.00	26	31	7.410	304.32	1000
3 x 4 re	16.30	34	40	4.610	417.67	1000

0.6/1 kV PVC İZOLELİ, KONSANTRİK İLETKENLİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED CONCENTRIC CONDUCTOR SCREEN, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVCV 0.6/1 kV TS IEC 60502-1
NYCY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
3 x 6 re	17.40	44	50	3.080	522.41	1000
3 x 1.5 rm	13.60	19	23	12.100	261.31	1000
3 x 2.5 rm	14.40	26	31	7.410	318.27	1000
3 x 4 rm	16.60	34	40	4.610	449.05	1000
3 x 6 rm	17.90	44	50	3.080	564.69	1000
3 x 10 rm	19.20	60	68	1.830	746.48	1000
3 x 16 rm	21.30	79	88	1.150	1,033.59	1000
3 x 25 rm	24.60	105	114	0.727	1,420.14	1000
3 x 35 rm	28.50	129	137	0.524	1,815.48	1000
3 x 50 rm	32.10	162	168	0.387	2,436.41	1000
3 x 70 rm	36.40	203	206	0.268	3,324.33	1000
3 x 95 rm	41.90	250	247	0.193	4,512.46	1000
3 x 120 rm	46.20	289	281	0.153	5,613.02	1000
3 x 150 rm	50.30	330	315	0.124	6,694.23	1000
3 x 185 rm	55.60	381	356	0.099	8,370.92	1000
3 x 240 rm	62.20	451	412	0.075	10,778.47	500
3 x 300 rm	69.50	517	464	0.060	13,396.75	500
3 x 400 rm	77.30	594	524	0.047	16,976.10	500
3 x 10 + 6 rm	20.30	68	77	1.830	823.42	1000
3 x 16 + 10 rm	22.50	90	99	1.150	1,167.45	1000
3 x 25 + 16 rm	25.80	121	128	0.727	1,604.09	1000
3 x 35 + 16 rm	29.30	149	154	0.524	1,976.85	1000
3 x 50 + 25 rm	33.90	173	173	0.387	2,752.84	1000
3 x 70 + 35 rm	37.70	215	212	0.268	3,677.72	1000
3 x 95 + 50 rm	43.50	266	255	0.193	5,002.54	1000
3 x 120 + 70 rm	48.50	308	289	0.153	6,344.15	500
3 x 150 + 70 rm	51.90	357	327	0.124	7,353.22	500
3 x 185 + 95 rm	58.20	405	366	0.099	9,379.11	500
3 x 240 + 120 rm	64.30	482	425	0.075	11,911.18	500
3 x 300 + 150 rm	71.60	552	479	0.060	14,756.93	500
3 x 400 + 185 rm	79.70	643	545	0.047	18,678.95	500
4 x 1.5 re	13.90	22	27	12.100	281.49	1000
4 x 2.5 re	14.90	29	35	7.410	353.37	1000
4 x 4 re	17.40	39	46	4.610	489.14	1000
4 x 6 re	18.60	50	57	3.080	615.08	1000
4 x 1.5 rm	14.40	22	27	12.100	298.93	1000
4 x 2.5 rm	15.40	29	35	7.410	372.09	1000
4 x 4 rm	17.80	39	46	4.610	527.19	1000
4 x 6 rm	19.20	50	57	3.080	664.98	1000
4 x 10 rm	20.70	68	77	1.830	889.94	1000
4 x 16 rm	23.10	90	99	1.150	1,243.89	1000
4 x 25 rm	26.90	121	128	0.727	1,741.54	1000
4 x 35 rm	31.10	149	154	0.524	2,243.43	1000
4 x 50 rm	35.80	173	173	0.387	3,075.91	1000
4 x 70 rm	39.80	215	212	0.268	4,115.82	1000
4 x 95 rm	46.40	266	255	0.193	5,659.91	1000
4 x 120 rm	50.70	308	289	0.153	6,971.34	500
4 x 150 rm	55.40	357	327	0.124	8,375.43	500
4 x 185 rm	61.60	405	366	0.099	10,513.88	500
4 x 240 rm	68.60	482	425	0.075	13,484.10	500
4 x 300 rm	77.00	552	479	0.060	16,847.60	500
4 x 400 rm	85.30	643	545	0.047	21,280.17	500
4 x 10 + 6 rm	22.00	68	77	1.830	983.85	1000

0.6/1 kV PVC İZOLELİ, KONSANTRİK İLETKENLİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED CONCENTRIC CONDUCTOR SCREEN, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVCV	0.6/1 kV	TS IEC 60502-1
NYCY	0.6/1 kV	VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
4 x 16 + 10 rm	24.50	90	99	1.150	1,397.67	1000
4 x 25 + 16 rm	28.40	121	128	0.727	1,957.18	1000
4 x 35 + 16 rm	32.30	149	154	0.524	2,445.41	1000
4 x 50 + 25 rm	37.40	173	173	0.387	3,393.41	1000
4 x 70 + 35 rm	41.80	215	212	0.268	4,558.30	1000
4 x 95 + 50 rm	48.70	266	255	0.193	6,259.87	1000
4 x 120 + 70 rm	53.40	308	289	0.153	7,789.79	500
4 x 150 + 70 rm	58.10	357	327	0.124	9,229.98	500
4 x 185 + 95 rm	64.60	405	366	0.099	11,637.14	500
4 x 240 + 120 rm	71.60	482	425	0.075	14,831.44	500
4 x 300 + 150 rm	80.30	552	479	0.060	18,509.18	500
4 x 400 + 185 rm	89.00	643	545	0.047	23,353.68	500
5 x 1.5 re	14.70	23	27	12.100	320.20	1000
5 x 2.5 re	15.80	30	36	7.410	404.79	1000
5 x 4 re	18.60	41	47	4.610	569.05	1000
5 x 6 re	19.90	52	59	3.080	717.26	1000
5 x 1.5 rm	15.30	23	27	12.100	342.55	1000
5 x 2.5 rm	16.40	30	36	7.410	428.84	1000
5 x 4 rm	19.10	41	47	4.610	614.78	1000
5 x 6 rm	20.70	52	59	3.080	781.60	1000
5 x 10 rm	22.30	71	78	1.830	1,046.18	1000
5 x 16 rm	25.00	94	101	1.150	1,470.64	1000
5 x 25 rm	29.30	126	131	0.727	2,088.76	1000
5 x 35 rm	34.30	155	157	0.524	2,745.80	1000
5 x 50 rm	39.00	189	185	0.387	3,703.34	1000
5 x 70 rm	43.60	215	212	0.268	4,988.11	1000
5 x 95 rm	50.70	266	255	0.193	6,837.84	1000
5 x 120 rm	55.60	308	289	0.153	8,444.27	500
5 x 150 rm	61.20	357	327	0.124	10,247.13	500
5 x 185 rm	67.70	405	366	0.099	12,778.32	500
5 x 240 rm	76.00	482	425	0.075	16,509.42	500
5 x 300 rm	84.80	552	479	0.060	20,523.17	500
5 x 400 rm	94.00	643	545	0.047	25,947.49	500
7 x 1.5 re	15.60	14	10	12.100	279.12	1000
7 x 2.5 re	16.80	19	16	7.410	373.02	1000
7 x 1.5 rm	16.80	14	10	12.100	401.36	1000
7 x 2.5 rm	18.00	19	16	7.410	507.62	1000
10 x 1.5 re	17.10	12	9	12.100	463.65	1000
10 x 2.5 re	18.50	16	13	7.410	601.62	1000
10 x 1.5 rm	18.40	12	9	12.100	498.34	1000
10 x 2.5 rm	19.80	16	13	7.410	638.92	1000
12 x 1.5 re	18.30	12	9	12.100	500.17	1000
12 x 2.5 re	19.90	16	13	7.410	537.69	1000
12 x 1.5 rm	19.70	12	9	12.100	579.32	1000
12 x 2.5 rm	21.30	16	13	7.410	748.73	1000
14 x 1.5 re	19.20	10	8	12.100	600.01	1000
14 x 2.5 re	20.90	14	12	7.410	788.23	1000
14 x 1.5 rm	20.70	10	8	12.100	648.52	1000
14 x 2.5 rm	22.40	14	12	7.410	840.77	1000
19 x 1.5 re	21.60	9	7	12.100	775.13	1000
19 x 2.5 re	23.60	12	11	7.410	1,025.44	1000
19 x 1.5 rm	23.20	9	7	12.100	834.35	1000
19 x 2.5 rm	25.20	12	11	7.410	1,089.82	1000

0.6/1 kV PVC İZOLELİ, KONSANTRİK İLETKENLİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED CONCENTRIC CONDUCTOR SCREEN, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YVCV	0.6/1 kV	TS IEC 60502-1
NYCY	0.6/1 kV	VDE 0271

Teknik Özellikler / Technical Features

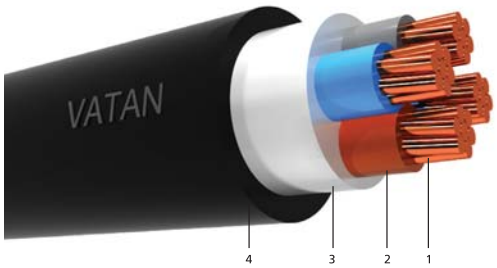
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg / Km	Mt
21 x 1.5 re	22.50	9	7	12.100	846.16	1000
21 x 2.5 re	24.70	12	11	7.410	1,127.69	1000
21 x 1.5 rm	24.20	9	7	12.100	913.82	1000
21 x 2.5 rm	26.50	12	11	7.410	1,206.88	1000
24 x 1.5 re	23.40	8	6	12.100	927.61	1000
24 x 2.5 re	25.70	11	10	7.410	1,240.44	1000
24 x 1.5 rm	25.20	8	6	12.100	1,003.88	1000
24 x 2.5 rm	27.60	11	10	7.410	1,329.29	1000
30 x 1.5 re	25.50	8	6	12.100	1,118.85	1000
30 x 2.5 re	28.30	11	10	7.410	1,519.32	1000
30 x 1.5 rm	27.60	8	6	12.100	1306,78	1000
30 x 2.5 rm	30.30	11	10	7.410	1821,32	1000
40 x 1.5 re	28.70	7	5	12.100	1,439.43	1000
40 x 2.5 re	31.90	9	8	7.410	1,962.31	1000
40 x 1.5 rm	31.00	7	5	12.100	1,568.35	1000
40 x 2.5 rm	34.50	9	8	7.410	2,133.70	1000
48 x 1.5 re	31.90	7	5	12.100	1,773.26	1000
48 x 2.5 re	36.10	9	8	7.410	2,471.45	1000
48 x 1.5 rm	34.80	7	5	12.100	1,972.15	1000
48 x 2.5 rm	38.30	9	8	7.410	2,624.20	1000
61 x 1.5 re	36.8	6	4	12.100	2,127.46	1000
61 x 2.5 re	41.2	8	7	7.410	2,897.32	1000
61 x 1.5 rm	39.2	6	4	12.100	2,308.28	1000
61 x 2.5 rm	43.1	8	7	7.410	3,097.32	1000

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED, MULTI-CORE CABLES, WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YXV	0.6/1 kV	TS IEC 60502-1
N2XY	0.6/1 kV	VDE 0271



1- Bir veya çok telli bakır iletken
2- XLPE izole
3- PVC dolgu
4- PVC dış kılıf

1- Solid or stranded copper conductor
2- XLPE insulation
3- PVC filler
4- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250 °C
(+≤ 5 sn)
Test gerilimi (AC): 3.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(for +≤ 5 second)
Test voltage (AC): 3.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Bİna içinde boru içinde ve endüstriyel fabrika yada mekanik hasar beklenmeyen dağıtım merkezlerinde kullanım içindir. Yüksek çalışma sıcaklıklarına uyum gösterir. Kısa süreli ani sıcaklık artışlarına dayanıklıdır ve daha uzun ömürlüdür.

APPLICATIONS
For indoor and outdoor in cable ducts and in industrial plants or switching stations where mechanical damage is not anticipated. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 1.5 re	5.60	25	33	26	33	12.100	45.35	1000
1 x 2.5 re	6.00	34	43	35	43	7.410	57.24	1000
1 x 4 re	6.40	45	56	46	55	4.610	73.43	1000
1 x 6 re	6.90	57	69	58	68	3.080	94.82	1000
1 x 1.5 rm	5.80	25	33	26	33	12.100	47.58	1000
1 x 2.5 rm	6.20	34	43	35	43	7.410	59.60	1000
1 x 4 rm	6.80	45	56	46	55	4.610	78.46	1000
1 x 6 rm	8.00	57	69	58	68	3.080	110.11	1000
1 x 10 rm	8.00	78	92	80	91	1.830	140.89	1000
1 x 16 rm	9.00	104	118	107	117	1.150	201.63	1000
1 x 25 rm	10.10	141	152	145	151	0.727	290.52	1000
1 x 35 rm	11.60	173	182	178	180	0.524	394.10	1000
1 x 50 rm	12.80	213	216	220	214	0.387	519.04	1000
1 x 70 rm	14.80	271	265	279	261	0.268	726.53	1000
1 x 95 rm	16.80	335	316	346	312	0.193	979.86	1000
1 x 120 rm	18.60	392	359	404	355	0.153	1,225.70	1000
1 x 150 rm	20.60	451	403	466	397	0.124	1,511.95	1000
1 x 185 rm	22.80	526	455	543	449	0.099	1,871.00	1000

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED, MULTI-CORE CABLES, WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YXV 0.6/1 kV TS IEC 60502-1
N2XY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 240 rm	25.50	630	527	650	519	0.075	2,419.96	1000
1 x 300 rm	28.20	728	593	751	584	0.060	3,012.15	500
1 x 400 rm	31.60	848	671	875	660	0.047	3,862.16	500
1 x 500 rm	35.20	985	757	1018	744	0.037	4,888.53	500
1 x 630 rm	39.40	1141	849	1179	834	0.028	6,243.05	500
2 x 1.5 re	11.20	29	34	29	34	12.100	176.70	1000
2 x 2.5 re	12.00	38	44	38	44	7.410	213.73	1000
2 x 4 re	12.80	50	58	50	58	4.610	260.29	1000
2 x 6 re	13.80	64	73	64	73	3.080	322.11	1000
2 x 1.5 rm	11.60	29	34	29	34	12.100	187.67	1000
2 x 2.5 rm	12.40	38	44	38	44	7.410	225.41	1000
2 x 4 rm	13.60	50	58	50	58	4.610	285.46	1000
2 x 6 rm	16.00	64	73	64	73	3.080	399.74	1000
2 x 10 rm	16.00	88	98	88	98	1.830	461.30	1000
2 x 16 rm	18.00	116	128	116	128	1.150	631.70	1000
2 x 25 rm	20.20	154	165	154	165	0.727	870.09	1000
2 x 35 rm	23.20	190	199	190	199	0.524	1,171.33	1000
2 x 50 rm	25.60	230	236	230	236	0.387	1,505.96	1000
2 x 70 rm	29.40	292	292	292	292	0.268	2,063.89	1000
2 x 95 rm	34.20	356	348	356	348	0.193	2,822.27	1000
2 x 120 rm	37.60	414	397	414	397	0.153	3,482.77	1000
2 x 150 rm	41.40	474	445	474	445	0.124	4,263.01	1000
2 x 185 rm	46.60	544	502	544	502	0.099	5,357.28	500
2 x 240 rm	52.00	644	582	644	582	0.075	6,842.77	500
2 x 300 rm	57.80	737	654	737	654	0.060	8,522.52	500
2 x 400 rm	64.60	834	741	834	741	0.047	10,831.75	500
3 x 1.5 re	10.90	21	28	21	28	12.100	177.31	1000
3 x 2.5 re	11.80	32	37	32	37	7.410	223.03	1000
3 x 4 re	13.40	43	49	43	49	4.610	303.55	1000
3 x 6 re	14.50	54	61	54	61	3.080	383.60	1000
3 x 1.5 rm	12.10	21	28	21	28	12.100	209.36	1000
3 x 2.5 rm	13.00	32	37	32	37	7.410	257.50	1000
3 x 4 rm	14.30	43	49	43	49	4.610	332.03	1000
3 x 6 rm	16.90	54	61	54	61	3.080	468.22	1000
3 x 10 rm	16.90	74	83	74	83	1.830	560.56	1000
3 x 16 rm	19.00	99	107	99	107	1.150	779.01	1000
3 x 25 rm	21.40	131	139	131	139	0.727	1,095.79	1000
3 x 35 rm	24.70	162	167	162	167	0.524	1,486.85	1000
3 x 50 rm	27.40	200	203	200	203	0.387	1,936.59	1000
3 x 70 rm	31.90	252	248	252	248	0.268	2,708.27	1000
3 x 95 rm	36.70	309	298	309	298	0.193	3,664.87	1000
3 x 120 rm	40.30	359	339	359	339	0.153	4,530.00	500
3 x 150 rm	44.80	411	379	411	379	0.124	5,605.89	500
3 x 185 rm	50.00	475	430	475	430	0.099	6,974.03	500
3 x 240 rm	56.20	562	497	562	497	0.075	9,005.91	500
3 x 300 rm	62.00	645	560	645	560	0.060	11,143.53	500
3 x 400 rm	69.50	745	670	745	670	0.047	14,229.43	500
3 x 10 + 6 rm	18.20	81	89	81	89	1.830	634.64	1000
3 x 16 + 10 rm	20.00	108	116	108	116	1.150	891.84	1000
3 x 25 + 16 rm	22.70	146	151	146	151	0.727	1,272.29	1000
3 x 35 + 16 rm	25.40	180	181	180	181	0.524	1,631.96	1000
3 x 50 + 25 rm	28.40	212	208	212	208	0.387	2,171.22	1000
3 x 70 + 35 rm	33.40	265	254	265	254	0.268	3,058.33	1000

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED, MULTI-CORE CABLES, WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YXV	0.6/1 kV	TS IEC 60502-1
N2XY	0.6/1 kV	VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
3 x 95 + 50 rm	37.90	327	305	327	305	0.193	4,090.31	1000
3 x 120 + 70 rm	42.70	379	347	379	347	0.153	5,239.72	500
3 x 150 + 70 rm	46.20	442	392	442	392	0.124	6,212.43	500
3 x 185 + 95 rm	51.80	504	441	504	441	0.099	7,824.45	500
3 x 240 + 120 rm	58.10	597	511	597	511	0.075	10,061.97	500
3 x 300 + 150 rm	64.10	685	576	685	576	0.060	12,444.65	500
3 x 400 + 185 rm	72.10	790	670	790	670	0.047	15,909.52	500
4 x 1.5 re	12.40	27	31	27	31	12.100	228.04	1000
4 x 2.5 re	13.40	35	41	35	41	7.410	286.74	1000
4 x 4 re	13.60	47	53	47	53	4.610	334.86	1000
4 x 6 re	15.60	59	67	59	67	3.080	463.77	1000
4 x 1.5 rm	12.90	27	31	27	31	12.100	242.39	1000
4 x 2.5 rm	13.90	35	41	35	41	7.410	302.12	1000
4 x 4 rm	15.30	47	53	47	53	4.610	392.74	1000
4 x 6 rm	18.20	59	67	59	67	3.080	559.36	1000
4 x 10 rm	18.20	81	89	81	89	1.830	682.49	1000
4 x 16 rm	20.70	108	116	108	116	1.150	969.58	1000
4 x 25 rm	23.30	146	151	146	151	0.727	1,371.38	1000
4 x 35 rm	27.10	180	181	180	181	0.524	1,874.74	1000
4 x 50 rm	30.20	212	208	212	208	0.387	2,461.13	1000
4 x 70 rm	35.20	265	254	265	254	0.268	3,450.13	1000
4 x 95 rm	40.40	327	305	327	305	0.193	4,662.13	1000
4 x 120 rm	45.10	379	347	379	347	0.153	5,858.84	500
4 x 150 rm	49.70	442	392	442	392	0.124	7,187.77	500
4 x 185 rm	55.80	504	441	504	441	0.099	8,994.94	500
4 x 240 rm	62.20	597	511	597	511	0.075	11,530.90	500
4 x 300 rm	68.70	685	576	685	576	0.060	14,293.71	500
4 x 400 rm	77.40	790	670	790	670	0.047	18,351.01	500
4 x 10 + 6 rm	19.70	81	89	81	89	1.830	772.60	1000
4 x 16 + 10 rm	21.80	108	116	108	116	1.150	1,093.56	1000
4 x 25 + 16 rm	24.80	146	151	146	151	0.727	1,569.20	1000
4 x 35 + 16 rm	28.20	180	181	180	181	0.524	2,056.66	1000
4 x 50 + 25 rm	32.00	212	208	212	208	0.387	2,776.14	1000
4 x 70 + 35 rm	37.10	265	254	265	254	0.268	3,856.44	1000
4 x 95 + 50 rm	42.90	327	305	327	305	0.193	5,253.67	1000
4 x 120 + 70 rm	47.50	379	347	379	347	0.153	6,606.18	500
4 x 150 + 70 rm	51.80	442	392	442	392	0.124	7,917.02	500
4 x 185 + 95 rm	58.40	504	441	504	441	0.099	10,008.34	500
4 x 240 + 120 rm	65.10	597	511	597	511	0.075	12,805.18	500
4 x 300 + 150 rm	72.20	685	576	685	576	0.060	15,923.11	500
4 x 400 + 185 rm	80.90	790	670	790	670	0.047	20,290.93	500
5 x 1.5 re	13.20	27	32	27	32	12.100	262.56	1000
5 x 2.5 re	14.30	36	42	36	42	7.410	333.31	1000
5 x 4 re	15.40	48	54	48	54	4.610	426.77	1000
5 x 6 re	16.70	61	68	61	68	3.080	547.48	1000
5 x 1.5 rm	13.70	27	32	27	32	12.100	277.29	1000
5 x 2.5 rm	14.80	36	42	36	42	7.410	349.11	1000
5 x 4 rm	16.40	48	54	48	54	4.610	460.97	1000
5 x 6 rm	19.70	61	68	61	68	3.080	666.54	1000
5 x 10 rm	19.70	84	91	84	91	1.830	820.44	1000
5 x 16 rm	22.40	112	118	112	118	1.150	1,168.62	1000
5 x 25 rm	25.40	152	153	152	153	0.727	1,671.98	1000
5 x 35 rm	29.80	187	184	187	184	0.524	2,304.38	1000

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED, MULTI-CORE CABLES, WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YXV 0.6/1 kV TS IEC 60502-1
N2XY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

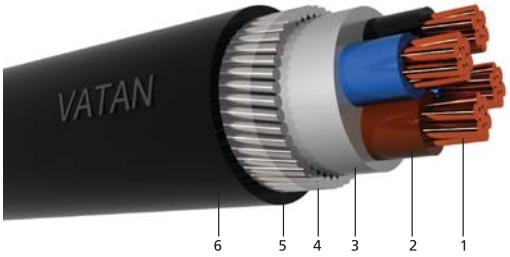
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ⁂	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ⁂	Ohm / Km	Kg	Mt
5 x 50 rm	33.60	227	217	227	217	0.387	3,065.17	1000
5 x 70 rm	38.90	347	252	347	252	0.268	4,263.60	1000
5 x 95 rm	45.10	305	303	305	303	0.193	5,822.09	1000
5 x 120 rm	49.60	355	346	355	346	0.153	7,215.41	500
5 x 150 rm	55.30	407	390	407	390	0.124	8,948.43	500
5 x 185 rm	61.60	469	441	469	441	0.099	11,111.92	500
5 x 240 rm	68.80	551	511	551	511	0.075	14,277.11	500
5 x 300 rm	76.50	638	580	638	580	0.060	17,805.19	500
5 x 400 rm	85.80	746	663	746	663	0.047	22,766.34	500
7 x 1.5 re	14.00	15	20	15	20	12.100	305.10	1000
7 x 2.5 re	15.20	21	26	21	26	7.410	394.15	1000
7 x 1.5 rm	14.60	15	20	15	20	12.100	323.49	1000
7 x 2.5 rm	15.80	21	26	21	26	7.410	413.88	1000
10 x 1.5 re	15.40	12	16	12	16	12.100	381.00	1000
10 x 2.5 re	16.80	18	22	18	22	7.410	501.56	1000
10 x 1.5 rm	16.10	12	16	12	16	12.100	403.98	1000
10 x 2.5 rm	17.50	18	22	18	22	7.410	526.33	1000
12 x 1.5 re	16.60	12	16	12	16	12.100	447.11	1000
12 x 2.5 re	18.10	17	21	17	21	7.410	589.16	1000
12 x 1.5 rm	17.30	12	16	12	16	12.100	470.98	1000
12 x 2.5 rm	18.90	17	21	17	21	7.410	620.12	1000
14 x 1.5 re	17.40	12	16	12	16	12.100	497.64	1000
14 x 2.5 re	19.10	16	20	16	20	7.410	665.41	1000
14 x 1.5 rm	18.20	12	16	12	16	12.100	526.68	1000
14 x 2.5 rm	19.90	16	20	16	20	7.410	696.91	1000
19 x 1.5 re	19.60	10	14	10	14	12.100	643.18	1000
19 x 2.5 re	21.60	14	18	14	18	7.410	868.85	1000
19 x 1.5 rm	20.60	10	14	10	14	12.100	685.04	1000
19 x 2.5 rm	22.60	14	18	14	18	7.410	914.51	1000
21 x 1.5 re	20.50	10	13	10	13	12.100	706.53	1000
21 x 2.5 re	22.60	14	17	14	17	7.410	955.36	1000
21 x 1.5 rm	21.50	10	13	10	13	12.100	749.45	1000
21 x 2.5 rm	23.70	14	17	14	17	7.410	1,008.88	1000
24 x 1.5 re	21.30	9	12	9	12	12.100	772.35	1000
24 x 2.5 re	23.60	13	16	13	16	7.410	1,056.69	1000
24 x 1.5 rm	22.40	9	12	9	12	12.100	821.59	1000
24 x 2.5 rm	24.70	13	16	13	16	7.410	1,110.74	1000
30 x 1.5 re	23.30	8	11	8	11	12.100	935.89	1000
30 x 2.5 re	25.80	13	16	13	16	7.410	1,282.80	1000
30 x 1.5 rm	24.50	8	11	8	11	12.100	993.81	1000
30 x 2.5 rm	27.30	13	16	13	16	7.410	1,366.79	1000
40 x 1.5 re	23.90	8	11	8	11	12.100	928.43	1000
40 x 2.5 re	26.10	11	14	11	14	7.410	1,194.40	1000
40 x 1.5 rm	27.70	8	11	8	11	12.100	1,282.94	1000
40 x 2.5 rm	30.90	11	14	11	14	7.410	1,772.89	1000
48 x 1.5 re	29.10	7	10	7	10	12.100	1,477.27	1000
48 x 2.5 re	33.20	10	13	10	13	7.410	2,111.45	1000
48 x 1.5 rm	30.90	7	10	7	10	12.100	1,590.65	1000
48 x 2.5 rm	34.90	10	13	10	13	7.410	2,233.95	1000
61 x 1.5 re	31.60	6	9	6	9	12.100	1,771.06	1000
61 x 2.5 re	35.40	9	12	9	12	7.410	2,481.95	1000
61 x 1.5 rm	33.60	6	9	6	9	12.100	1,906.06	1000
61 x 2.5 rm	37.40	9	12	9	12	7.410	2,631.95	1000

0.6/1 kV XLPE İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YXZ2V 0.6/1 kV TS IEC 60502-1
N2XRY 0.6/1 kV VDE 0271



1- Bir veya çok telli bakır iletken
2- XLPE izole
3- PVC dolgu
4- Galvanizli yuvarlak çelik tel
5- Polyester bant
6- PVC dış kılıf

1- Solid or stranded copper conductor
2- XLPE insulation
3- PVC filler
4- Galvanized round steel wires
5- Polyester tape
6- PVC outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250 °C
(+≤ 5 sn)
Test gerilimi (AC): 3.5 kV
Serim sıcaklığı min: 5 °C

TECHNICAL DATA
Permissible operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(for +≤ 5 second)
Test voltage (AC): 3.5 kV
Installation temp. min: 5 °C

KULLANMA YERİ
Bina içinde veya dışında, yer altında, boru içinde açıkta, mekanik koruma isteyenen ya da yerleştirme ve çalışma sırasında maruz kalınan daha yüksek zorlanmaların olduğu yerlerde, kemirgen hayvanların bulunduğu ortamlarda kullanım içindir. Yüksek çalışma sıcaklıklarına uyum gösterir. Kısa süreli ani sıcaklık artışlarına dayanıklıdır ve daha uzun ömürlüdür.

APPLICATIONS
For indoor, outdoor and underground installation in ducts and in the open where better mechanical protection is required, or for higher tensile stress during installation and operation. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 10 rm	10.40	78	92	80	91	1.830	249.69	1000
1 x 16 rm	11.40	104	118	107	117	1.150	328.46	1000
1 x 25 rm	12.50	141	152	145	151	0.727	435.40	1000
1 x 35 rm	14.00	173	182	178	180	0.524	566.21	1000
1 x 50 rm	16.10	213	216	220	214	0.387	810.95	1000
1 x 70 rm	17.90	271	265	279	261	0.268	1,053.46	1000
1 x 95 rm	19.90	335	316	346	312	0.193	1,357.54	1000
1 x 120 rm	22.20	392	359	404	355	0.153	1,750.23	1000
1 x 150 rm	24.00	451	403	466	397	0.124	2,079.25	1000
1 x 185 rm	26.20	526	455	543	449	0.099	2,517.97	1000
1 x 240 rm	28.90	630	527	650	519	0.075	3,148.39	1000
1 x 300 rm	31.60	728	593	751	584	0.060	3,807.70	500

0.6/1 kV XLPE İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YXZ2V 0.6/1 kV TS IEC 60502-1
N2XRY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 400 rm	36.00	848	671	875	660	0.047	5,023.51	500
1 x 500 rm	39.60	985	757	1018	744	0.037	6,173.20	500
1 x 630 rm	43.60	1141	849	1179	834	0.028	7,653.28	500
2 x 1.5 re	12.80	29	34	29	34	12.100	305.00	1000
2 x 2.5 re	13.60	38	44	38	44	7.410	354.15	1000
2 x 4 re	14.40	50	58	50	58	4.610	416.82	1000
2 x 6 re	16.30	64	73	64	73	3.080	585.53	1000
2 x 1.5 rm	13.20	29	34	29	34	12.100	323.85	1000
2 x 2.5 rm	14.00	38	44	38	44	7.410	373.73	1000
2 x 4 rm	16.10	50	58	50	58	4.610	548.40	1000
2 x 6 rm	17.30	64	73	64	73	3.080	648.37	1000
2 x 10 rm	18.50	88	98	88	98	1.830	783.27	1000
2 x 16 rm	20.50	116	128	116	128	1.150	1,003.27	1000
2 x 25 rm	23.40	154	165	154	165	0.727	1,407.30	1000
2 x 35 rm	26.40	190	199	190	199	0.524	1,805.83	1000
2 x 50 rm	29.00	230	236	230	236	0.387	2,241.00	1000
2 x 70 rm	33.80	292	292	292	292	0.268	3,135.85	1000
2 x 95 rm	38.40	356	348	356	348	0.193	4,059.54	1000
2 x 120 rm	42.00	414	397	414	397	0.153	4,872.28	1000
2 x 150 rm	46.80	474	445	474	445	0.124	6,170.00	500
2 x 185 rm	52.00	544	502	544	502	0.099	7,508.73	500
2 x 240 rm	57.40	644	582	644	582	0.075	9,241.38	500
2 x 300 rm	63.00	737	654	737	654	0.060	11,180.83	500
2 x 400 rm	70.00	834	741	834	741	0.047	13,888.11	500
3 x 1.5 re	13.30	21	28	21	28	12.100	334.94	1000
3 x 2.5 re	14.20	32	37	32	37	7.410	398.57	1000
3 x 4 re	15.00	43	49	43	49	4.610	468.42	1000
3 x 6 re	17.00	54	61	54	61	3.080	666.98	1000
3 x 1.5 rm	13.70	21	28	21	28	12.100	353.59	1000
3 x 2.5 rm	14.60	32	37	32	37	7.410	414.00	1000
3 x 4 rm	16.80	43	49	43	49	4.610	605.06	1000
3 x 6 rm	18.10	54	61	54	61	3.080	733.26	1000
3 x 10 rm	19.40	74	83	74	83	1.830	902.86	1000
3 x 16 rm	22.20	99	107	99	107	1.150	1,285.00	1000
3 x 25 rm	24.60	131	139	131	139	0.727	1,667.08	1000
3 x 35 rm	28.10	162	167	162	167	0.524	2,185.68	1000
3 x 50 rm	30.80	200	203	200	203	0.387	2,729.14	1000
3 x 70 rm	36.30	252	248	252	248	0.268	3,867.48	1000
3 x 95 rm	40.90	309	298	309	298	0.193	4,989.47	1000
3 x 120 rm	45.70	359	339	359	339	0.153	6,361.94	500
3 x 150 rm	50.20	411	379	411	379	0.124	7,690.76	500
3 x 185 rm	55.40	475	430	475	430	0.099	9,305.19	500
3 x 240 rm	61.60	562	497	562	497	0.075	11,626.59	500
3 x 300 rm	67.40	645	560	645	560	0.060	14,058.39	500
3 x 400 rm	76.20	745	670	745	670	0.047	18,348.83	500
3 x 10 + 6 rm	20.40	81	89	81	89	1.830	985.52	1000
3 x 16 + 10 rm	23.20	108	116	108	116	1.150	1,430.45	1000
3 x 25 + 16 rm	25.90	146	151	146	151	0.727	1,892.71	1000
3 x 35 + 16 rm	28.80	180	181	180	181	0.524	2,348.69	1000
3 x 50 + 25 rm	31.80	212	208	212	208	0.387	2,998.31	1000
3 x 70 + 35 rm	37.60	265	254	265	254	0.268	4,256.20	1000
3 x 95 + 50 rm	42.30	327	305	327	305	0.193	5,492.48	1000
3 x 120 + 70 rm	48.10	379	347	379	347	0.153	7,200.89	500

0.6/1 kV XLPE İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YXZ2V 0.6/1 kV TS IEC 60502-1
N2XRY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
3 x 150 + 70 rm	51.60	442	392	442	392	0.124	8,348.53	500
3 x 185 + 95 rm	57.00	504	441	504	441	0.099	10,220.11	500
3 x 240 + 120 rm	63.50	597	511	597	511	0.075	12,777.00	500
3 x 300 + 150 rm	69.50	685	576	685	576	0.060	15,459.10	500
3 x 400 + 185 rm	79.00	790	670	790	670	0.047	20,272.08	500
4 x 1.5 re	14.00	27	31	27	31	12.100	376.36	1000
4 x 2.5 re	15.00	35	41	35	41	7.410	451.42	1000
4 x 4 re	16.90	47	53	47	53	4.610	646.81	1000
4 x 6 re	18.10	59	67	59	67	3.080	776.74	1000
4 x 1.5 rm	14.50	27	31	27	31	12.100	398.60	1000
4 x 2.5 rm	16.40	35	41	35	41	7.410	565.33	1000
4 x 4 rm	17.80	47	53	47	53	4.610	695.12	1000
4 x 6 rm	19.30	59	67	59	67	3.080	848.31	1000
4 x 10 rm	20.70	81	89	81	89	1.830	1,054.75	1000
4 x 16 rm	23.90	108	116	108	116	1.150	1,524.70	1000
4 x 25 rm	26.70	146	151	146	151	0.727	2,020.84	1000
4 x 35 rm	30.50	180	181	180	181	0.524	2,643.14	1000
4 x 50 rm	34.40	212	208	212	208	0.387	3,557.31	1000
4 x 70 rm	39.60	265	254	265	254	0.268	4,746.66	1000
4 x 95 rm	45.80	327	305	327	305	0.193	6,495.88	1000
4 x 120 rm	50.30	379	347	379	347	0.153	7,920.61	500
4 x 150 rm	55.10	442	392	442	392	0.124	9,492.82	500
4 x 185 rm	61.20	504	441	504	441	0.099	11,626.02	500
4 x 240 rm	67.60	597	511	597	511	0.075	14,454.76	500
4 x 300 rm	75.60	685	576	685	576	0.060	18,399.38	500
4 x 400 rm	84.10	790	670	790	670	0.047	23,025.51	500
4 x 10 + 6 rm	22.60	81	89	81	89	1.830	1,281.28	1000
4 x 16 + 10 rm	25.00	108	116	108	116	1.150	1,681.31	1000
4 x 25 + 16 rm	28.20	146	151	146	151	0.727	2,268.49	1000
4 x 35 + 16 rm	31.60	180	181	180	181	0.524	2,858.93	1000
4 x 50 + 25 rm	36.40	212	208	212	208	0.387	3,942.10	1000
4 x 70 + 35 rm	41.30	265	254	265	254	0.268	5,214.93	1000
4 x 95 + 50 rm	48.30	327	305	327	305	0.193	7,215.53	1000
4 x 120 + 70 rm	52.90	379	347	379	347	0.153	8,818.57	500
4 x 150 + 70 rm	57.00	442	392	442	392	0.124	10,324.13	500
4 x 185 + 95 rm	63.80	504	441	504	441	0.099	12,770.11	500
4 x 240 + 120 rm	70.50	597	511	597	511	0.075	15,901.41	500
4 x 300 + 150 rm	79.10	685	576	685	576	0.060	20,238.41	500
4 x 400 + 185 rm	87.60	790	670	790	670	0.047	25,175.23	500
5 x 1.5 re	14.80	27	32	27	32	12.100	422.86	1000
5 x 2.5 re	16.80	36	42	36	42	7.410	606.45	1000
5 x 4 re	17.90	48	54	48	54	4.610	729.60	1000
5 x 6 re	19.20	61	68	61	68	3.080	880.41	1000
5 x 1.5 rm	16.20	27	32	27	32	12.100	540.07	1000
5 x 2.5 rm	17.30	36	42	36	42	7.410	641.52	1000
5 x 4 rm	18.90	48	54	48	54	4.610	792.70	1000
5 x 6 rm	20.60	61	68	61	68	3.080	972.66	1000
5 x 10 rm	22.90	84	91	84	91	1.830	1,342.19	1000
5 x 16 rm	25.60	112	118	112	118	1.150	1,772.87	1000
5 x 25 rm	28.80	152	153	152	153	0.727	2,388.06	1000
5 x 35 rm	34.00	187	184	187	184	0.524	3,363.48	1000
5 x 50 rm	37.80	227	217	227	217	0.387	4,295.95	1000
5 x 70 rm	43.10	347	252	347	252	0.268	5,679.37	1000

0.6/1 kV XLPE İZOLELİ, YUVARLAK ÇELİK TEL ZIRHLI, ÇOK DAMARLI, BAKIR İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED ROUND STEEL WIRE ARMOURED, MULTI-CORE CABLES WITH COPPER CONDUCTOR

ALÇAK GERİLİM KABLOLARI

LOW VOLTAGE CABLES

YXZ2V 0.6/1 kV TS IEC 60502-1
N2XRY 0.6/1 kV VDE 0271

Teknik Özellikler / Technical Features

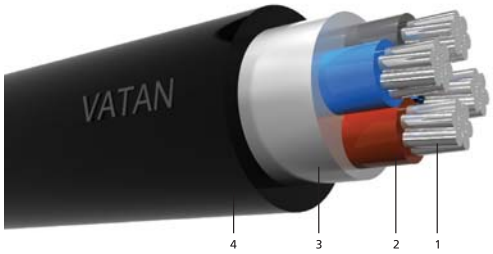
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
5 x 95 rm	50.30	305	303	305	303	0.193	7,882.72	1000
5 x 120 rm	55.00	355	346	355	346	0.153	9,513.32	500
5 x 150 rm	60.70	407	390	407	390	0.124	11,551.39	500
5 x 185 rm	67.00	469	441	469	441	0.099	14,004.39	500
5 x 240 rm	75.70	551	511	551	511	0.075	18,386.98	500
5 x 300 rm	83.20	638	580	638	580	0.060	22,347.62	500
5 x 400 rm	92.50	746	663	746	663	0.047	27,938.21	500
7 x 1.5 re	16.50	15	20	15	20	12.100	577.81	1000
7 x 2.5 re	17.70	21	26	21	26	7.410	696.77	1000
7 x 1.5 rm	17.10	15	20	15	20	12.100	605.83	1000
7 x 2.5 rm	18.30	21	26	21	26	7.410	726.14	1000
10 x 1.5 re	17.90	12	16	12	16	12.100	683.05	1000
10 x 2.5 re	19.30	18	22	18	22	7.410	843.60	1000
10 x 1.5 rm	18.60	12	16	12	16	12.100	725.30	1000
10 x 2.5 rm	20.00	18	22	18	22	7.410	878.00	1000
12 x 1.5 re	19.10	12	16	12	16	12.100	778.36	1000
12 x 2.5 re	20.60	17	21	17	21	7.410	960.69	1000
12 x 1.5 rm	19.80	12	16	12	16	12.100	821.49	1000
12 x 2.5 rm	22.10	17	21	17	21	7.410	1,124.28	1000
14 x 1.5 re	19.90	12	16	12	16	12.100	848.45	1000
14 x 2.5 re	22.30	16	20	16	20	7.410	1,170.16	1000
14 x 1.5 rm	20.70	12	16	12	16	12.100	896.76	1000
14 x 2.5 rm	23.10	16	20	16	20	7.410	1,233.23	1000
19 x 1.5 re	22.80	10	14	10	14	12.100	1,162.42	1000
19 x 2.5 re	24.80	14	18	14	18	7.410	1,453.99	1000
19 x 1.5 rm	23.80	10	14	10	14	12.100	1,235.84	1000
19 x 2.5 rm	25.80	14	18	14	18	7.410	1,531.21	1000
21 x 1.5 re	23.70	10	13	10	13	12.100	1,257.63	1000
21 x 2.5 re	25.80	14	17	14	17	7.410	1,572.65	1000
21 x 1.5 rm	24.70	10	13	10	13	12.100	1,332.12	1000
21 x 2.5 rm	27.10	14	17	14	17	7.410	1,670.46	1000
24 x 1.5 re	24.50	9	12	9	12	12.100	1,339.68	1000
24 x 2.5 re	27.00	13	16	13	16	7.410	1,719.10	1000
24 x 1.5 rm	25.60	9	12	9	12	12.100	1,420.49	1000
24 x 2.5 rm	28.10	13	16	13	16	7.410	1,805.23	1000
30 x 1.5 re	26.70	8	11	8	11	12.100	1,579.78	1000
30 x 2.5 re	29.20	13	16	13	16	7.410	2,011.15	1000
30 x 1.5 rm	27.90	8	11	8	11	12.100	1,685.61	1000
30 x 2.5 rm	30.70	13	16	13	16	7.410	2,144.70	1000
40 x 1.5 re	29.50	8	11	8	11	12.100	1,935.79	1000
40 x 2.5 re	33.60	11	14	11	14	7.410	2,706.70	1000
40 x 1.5 rm	31.10	8	11	8	11	12.100	2,058.15	1000
40 x 2.5 rm	35.10	11	14	11	14	7.410	2,874.60	1000
48 x 1.5 re	33.50	7	10	7	10	12.100	2,513.37	1000
48 x 2.5 re	37.40	10	13	10	13	7.410	3,292.47	1000
48 x 1.5 rm	35.10	7	10	7	10	12.100	2,687.73	1000
48 x 2.5 rm	39.30	10	13	10	13	7.410	3,508.22	1000
61 x 1.5 re	36.00	6	9	6	9	12.100	2,911.97	1000
61 x 2.5 re	39.80	9	12	9	12	7.410	3,785.18	1000
61 x 1.5 rm	37.80	6	9	6	9	12.100	3,106.87	1000
61 x 2.5 rm	41.60	9	12	9	12	7.410	3,968.63	1000

0.6/1 kV PVC İZOLELİ, ÇOK DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED MULTI -CORE CABLES WITH ALUMINIUM CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YAVV 0.6/1 kV TS IEC 60502
NAYY 0.6/1 kV VDE 0276



1- Bir veya çok telli alüminyum iletken
2- PVC izole
3- PVC dolgu
4- PVC dış izole

1- Solid or stranded aluminium conductor
2- PVC insulation
3- PVC filler
4- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 70 °C
Maksimum kısa devre sıcaklığı: 160 °C
(Maksimum 5 sn için)
Standart: TS IEC 60502 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 70 °C
Maximum short circuit temp. : 160 °C
(Maximum 5 sec.)
Standarts: TS IEC 60502 VDE 0276

KULLANMA YERİ
Mekanik zorlanmaların bulunmadığı yerlerde, enerji istasyonlarında, umumi inşaat kabloları olarak dahili tesislerde, kablo kanallarında endüstriyel tesislerde, künk ve borular içinde kullanılır.

APPLICATIONS
At power distribution stations, house hold premises, at industrial plants in cable ducts and pipes.Where there is no risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1x10	8.60	49	59	50	58	3.08	101.69	1000
1x16	9.60	66	77	68	76	1.91	132.54	1000
1x25	11.10	88	98	91	97	1.20	181.36	1000
1x35	12.2	109	118	112	117	0.868	227.86	1000
1x50	13.8	134	140	138	138	0.641	297.71	1000
1x70	15.6	170	171	175	169	0.443	385.48	1000
1x95	18	210	205	216	202	0.320	524.55	1000
1x120	19.4	244	233	251	229	0.253	619.32	1000
1x150	21.4	283	261	291	258	0.206	756.28	1000
1x185	23.8	328	296	339	292	0.164	945.76	1000
1x240	26.7	395	344	407	339	0.125	1198.22	1000
1x300	29.4	456	388	471	382	0.100	1477.57	500
1x400	33	548	447	565	440	0.0778	1872.78	500
1x500	36.6	633	507	653	499	0.0605	2329.59	500
2x10	17.20	54	61	-	-	3.08	411.56	1000
2x16	19.20	73	81	-	-	1.91	525.71	1000
2x25	22.20	94	103	-	-	1.20	713.02	1000
2x35	24.4	116	125	-	-	0.868	880.18	1000

0.6/1 kV PVC İZOLELİ, ÇOK DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

0.6/1 kV PVC INSULATED MULTI -CORE CABLES WITH ALUMINIUM CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YAVV 0.6/1 kV TS IEC 60502
NAYY 0.6/1 kV VDE 0276

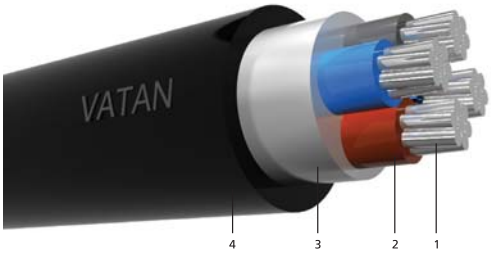
Teknik Özellikler / Technical Features						
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**		**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***		***Conductor DC Resistance at (20°C)***	***Net Weight***	***Delivery Lenght***
mm^2	**mm**	**Havada Air (A)**	**Toprakta Ground (A)**	**Ohm / Km**	**Kg**	**Mt**
2x50	27.8	141	148	0.641	1153.45	1000
2x70	31.6	178	183	0.443	1501.99	1000
2x95	36.4	218	219	0.320	2015.48	1000
2x120	39.4	253	250	0.253	2378.44	500
2x150	43.6	285	279	0.206	2920.14	500
2x185	48.4	331	317	0.164	3619.31	500
2x240	54.6	390	366	0.125	4618.53	500
2x300	60.4	447	413	0.100	5691.55	500
3x10	18.20	46	52	3.08	466.27	500
3x16	20.30	62	69	1.91	597.79	500
3x25	23.60	81	88	1.20	820.50	500
3x35	26	100	106	0.868	1022.17	500
3x50	29.8	126	131	0.641	1353.50	500
3x70	33.9	158	160	0.443	1767.19	500
3x95	39	194	192	0.320	2372.10	500
3x120	42.6	225	219	0.253	2850.67	500
3x150	46.7	257	245	0.206	3440.62	500
3x185	51.9	297	278	0.164	4279.07	500
3x240	58.5	352	322	0.125	5453.89	500
3x300	64.7	405	364	0.100	6729.13	500
4x10	19.70	53	59	3.08	551.39	1000
4x16	22.10	71	77	1.91	716.62	1000
4x25	25.70	93	99	1.20	984.31	1000
4x35	28.6	115	119	0.868	1249.12	1000
4x50	33.3	134	135	0.641	1704.40	1000
4x70	37.3	167	165	0.443	2163.16	1000
4x95	43.5	207	198	0.320	2979.80	1000
4x120	47.1	240	225	0.253	3525.54	500
4x150	51.8	277	254	0.206	4275.17	500
4x185	57.9	316	286	0.164	5375.20	500
4x240	64.9	377	332	0.125	6784.20	500
4x300	72.2	433	376	0.100	8463.10	500
5x10	19.70	54	60	3.08	551.39	1000
5x16	22.10	73	78	1.91	716.62	1000
5x25	25.70	97	101	1.20	984.31	1000
5x35	28.6	120	121	0.868	1249.12	1000
5x50	33.3	147	144	0.641	1704.40	1000

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED MULTI -CORE CABLES WITH ALUMINIUM CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YAXV 0.6/1 kV TS IEC 60502
NA2XY 0.6/1 kV VDE 0276



1- Bir veya çok telli alüminyum iletken
2- XLPE izole
3- PVC dolgu
4- PVC dış izole

1- Solid or stranded aluminium conductor
2- XLPE insulation
3- PVC filler
4- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Standart: TS IEC 60502 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Standarts: TS IEC 60502 VDE 0276

KULLANMA YERİ
Mekanik zorlanmaların bulunmadığı yerlerde, enerji istasyonlarında, umumi inşaat kabloları olarak dahili tesislerde, kablo kanallarında endüstriyel tesislerde, künk ve borular içinde kullanılır.

APPLICATIONS
At power distribution stations, house hold premises, at industrial plants in cable ducts and pipes.Where there is no risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1x10	8.60	60	71	62	70	3.08	93.57	1000
1x16	9.60	81	92	84	91	1.91	122.36	1000
1x25	11.10	109	118	112	117	1.20	166.86	1000
1x35	12.2	134	142	138	140	0.868	210.48	1000
1x50	13.8	165	168	170	166	0.641	273.66	1000
1x70	15.6	211	206	218	203	0.443	356.77	1000
1x95	18	260	245	269	242	0.320	485.22	1000
1x120	19.4	303	279	312	275	0.253	574.95	1000
1x150	21.4	353	313	364	309	0.206	701.46	1000
1x185	23.8	411	355	424	350	0.164	876.17	1000
1x240	26.7	494	412	510	406	0.125	1111.24	1000
1x300	29.4	571	465	590	458	0.100	1369.41	500
1x400	33	688	536	711	528	0.0778	1737.72	500
1x500	36.6	796	609	823	599	0.0605	2166.84	500
2x10	17.20	67	75	-	-	3.08	395.31	1000
2x16	19.20	91	100	-	-	1.91	505.35	1000
2x25	22.20	119	128	-	-	1.20	684.03	1000
2x35	24.4	147	154	-	-	0.868	845.41	1000
2x50	27.8	179	183	-	-	0.641	1105.34	1000
2x70	31.6	227	226	-	-	0.443	1444.57	1000
2x95	36.4	277	270	-	-	0.320	1936.82	1000
2x120	39.4	322	308	-	-	0.253	2289.69	500

0.6/1 kV XLPE İZOLELİ, ÇOK DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

0.6/1 kV XLPE INSULATED MULTI -CORE CABLES WITH ALUMINIUM CONDUCTOR

ALÇAK GERİLİM KABLOLARI
LOW VOLTAGE CABLES

YAXV 0.6/1 kV TS IEC 60502
NA2XY 0.6/1 kV VDE 0276

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg	Mt
2x150	43.6	364	344	0.206	2810.50	500
2x185	48.4	425	391	0.164	3480.13	500
2x240	54.6	501	454	0.125	4444.58	500
2x300	60.4	574	511	0.100	5475.25	500
3x10	18.20	57	63	3.08	441.89	1000
3x16	20.30	77	84	1.91	567.25	1000
3x25	23.60	101	107	1.20	777.01	1000
3x35	26	125	129	0.868	970.01	1000
3x50	29.8	155	157	0.641	1281.34	1000
3x70	33.9	195	193	0.443	1681.07	1000
3x95	39	240	231	0.320	2254.11	1000
3x120	42.6	279	263	0.253	2717.54	500
3x150	46.7	319	294	0.206	3276.15	500
3x185	51.9	370	335	0.164	4070.30	500
3x240	58.5	439	388	0.125	5192.96	500
3x300	64.7	506	439	0.100	6404.67	500
4x10	19.70	63	69	3.08	518.89	1000
4x16	22.10	85	90	1.91	675.90	1000
4x25	25.70	112	116	1.20	926.33	1000
4x35	28.6	139	140	0.868	1179.58	1000
4x50	33.3	164	162	0.641	1608.18	1000
4x70	37.3	206	197	0.443	2048.33	1000
4x95	43.5	253	237	0.320	2822.48	1000
4x120	47.1	295	269	0.253	3348.05	500
4x150	51.8	343	305	0.206	4055.89	500
4x185	57.9	393	344	0.164	5096.85	500
4x240	64.9	466	399	0.125	6436.30	500
4x300	72.2	537	451	0.100	8030.49	500
5x10	21.30	65	70	3.08	608.51	1000
5x16	24.00	88	92	1.91	800.87	1000
5x25	28.30	117	118	1.20	1125.83	1000
5x35	31.8	144	143	0.868	1462.43	1000
5x50	36.5	176	168	0.641	1938.68	1000

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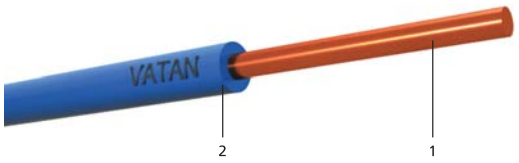
Halogen Free Cables

HALOJENSİZ ALEVİ İLETMEYEN TEK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, SINGLE -CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR
HALOGEN FREE CABLES

H05Z1-U 300/500 V TS 9758 VDE 0281
H07Z1-U/R 450/750 V TS 9758 VDE 0281



1- Bir veya çok telli bakır iletken
2- HFFR izole

1. Solid or stranded copper conductor
2. HFFR insulation

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250°C
Serim sıcaklığı min 5 °C

TECHNICAL DATA
Permissible operating temperature: 90 °C
Max. short circuit temp: 250 °C
Installation temp.: 5 °C

KULLANMA YERİ
Kuru mekanlarda, şalt tesislerinde, dağıtım sistemlerinde, işletmelerde aydınlatma ve tesisat kablolu olarak kullanılır.

APPLICATIONS
Used in dry places, swich gear rooms, distribution boards, industrial plants as lighting and building wire.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg	Mt
0.5	2.00	7	-	36.000	3.96	100
0.75	2.20	12	-	24.500	4.58	100
1	2.30	18	-	18.100	4.73	100
1.5	2.80	24	15	12.100	6.99	100
2.5	3.40	32	19	7.410	9.87	100
4	3.80	42	25	4.610	11.01	100
6	4.30	54	33	3.080	12.78	100
10	5.50	73	45	1.830	20.64	100
16	6.50	98	61	1.150	25.77	100
1.5	3.00	24	15	12.100	8.35	100
2.5	3.60	32	19	7.410	11.52	100
4	4.20	42	25	4.610	14.78	100
6	4.80	54	33	3.080	18.14	100
10	5.80	73	45	1.830	24.63	100
16	6.80	98	61	1.150	30.48	100
25	8.30	129	83	0.727	43.66	100 or 1000
35	9.40	158	103	0.524	51.60	100 or 1000
50	11.00	197	132	0.387	67.55	100 or 1000
70	12.60	245	165	0.268	82.03	100 or 1000
95	14.80	290	207	0.193	115.55	100 or 1000
120	16.20	345	235	0.153	129.18	100 or 1000
150	18.00	390	-	0.124	156.70	100 or 1000
185	20.20	445	-	0.099	203.21	100 or 1000
240	22.90	525	-	0.075	257.81	100 or 1000
300	25.60	605	-	0.060	322.08	100 or 1000
400	28.80	725	-	0.047	377.16	100 or 1000

HALOJENSİZ ALEVİ İLETMEYEN TEK DAMARLI BÜKÜLGEN BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, SINGLE- CORE CABLES WITH FLEXIBLE COPPER CONDUCTOR

HALOJENSİZ KABLOLAR
HALOGEN FREE CABLES

H05Z1-K 300/500 V TS 9758
H07Z1-K 450/750 V TS 9758

1- Bükülgen bakır iletken
2- HFFR izole

1- Flexible copper conductor
2- HFFR insulation

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250°C
Serim sıcaklığı min 5 °C

TECHNICAL DATA
Permissible operating temperature: 90 °C
Max. short circuit temp: 250 °C
Installation temp.: 5 °C

KULLANMA YERİ
Kuru mekanlarda, şalt tesislerinde, dağıtım sistemlerinde, işletmelerde aydınlatma ve tesisat kablosu olarak kullanılır.

APPLICATIONS
Used in dry places, swich gear rooms, distribution boards, industrial plants as lighting and building wire.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg	Mt
0.5	2.200	6	-	39.000	9.10	100
0.75	2.300	10	-	26.000	11.33	100
1	2.500	16	-	19.500	14.15	100
1.5	2.900	24	15	13.300	19.91	100
2.5	3.600	32	19	7.980	31.95	100
4	4.100	41	25	4.950	46.65	100
6	4.600	53	33	3.300	65.19	100
10	5.900	72	45	1.910	110.04	100
16	7.200	97	61	1.210	170.35	100
25	8.900	128	83	0.780	263.10	100 or 1000
35	9.900	156	103	0.554	354.22	100 or 1000
50	11.800	195	132	0.386	506.37	100 or 1000
70	13.300	243	165	0.272	692.79	100 or 1000
95	15.300	287	207	0.206	919.15	100 or 1000
120	17.400	342	235	0.161	1,177.60	100 or 1000
150	19.400	386	-	0.129	1,468.28	100 or 1000
185	21.500	441	-	0.106	1,795.45	100 or 1000
240	24.500	520	-	0.080	2,559.15	100 or 1000
300	27.300	605	-	0.064	2,937.86	100 or 1000
400	31.000	725	-	0.049	3,855.27	100 or 1000

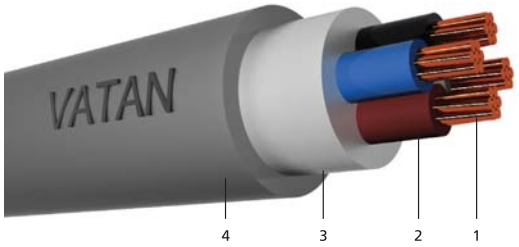
HALOJENSİZ ALEVİ İLETMEYEN ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, MULTI-CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

HALOGEN FREE CABLES

NHMH 300/500V VDE 0250



1- Bir ya da çok telli bakır iletken
2- HFFR izole
3- HFFR dolgu
4- HFFR dış kılıf

1- Solid or stranded copper conductor
2- HFFR insulation
3- HFFR filler
4- HFFR outer sheath

TEKNİK BİLGİLER

İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250°C
Serim sıcaklığı min 5 °C

TECHNICAL DATA

Permissible operating temperature: 90 °C
Max. short circuit temp: 250 °C
Installation temp.: 5 °C

KULLANMA YERİ

Hastaneler alışveriş merkezleri ile çok sayıda insanın bulunduğu yangın tehlikesi olan tesislerde kullanılır. Bu kablolar, yangın sırasında alevi iletmezler, yoğun duman oluşturmazlar böylece can ve mal güvenliği sağlanır.

APPLICATIONS

Used in hospitals, shopping centeres in places where human groups are located, subject to fire danger These cables do not conduct flame during fire and there provide health and goods protection.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg	Mt
2 x 1.5	8.00	18.5	26	12.100	94.36	100
2 x 2.5	8.80	25	34	7.410	123.21	100
2 x 4	10.00	34	44	4.610	169.94	100
2 x 6	11.40	43	56	3.080	231.04	100
2 x 10	14.40	60	75	1.830	376.15	100
2 x 16	16.40	80	98	1.150	529.34	100
3 x 1.5	8.40	18.5	26	12.100	113.31	100
3 x 2.5	9.30	25	34	7.410	152.04	100
3 x 4	10.60	34	44	4.610	213.62	100
3 x 6	12.50	43	56	3.080	305.29	100
3 x 10	15.30	60	75	1.830	480.73	100
3 x 16	17.40	80	98	1.150	685.50	100
4 x 1.5	9.00	18.5	26	12.100	136.37	100
4 x 2.5	10.00	25	34	7.410	185.57	100
4 x 4	11.40	34	44	4.610	262.79	100
4 x 6	13.40	43	56	3.080	375.21	100
4 x 10	16.60	60	75	1.830	600.71	100
4 x 16	19.00	80	98	1.150	867.14	100
5 x 1.5	9.70	18.5	26	12.100	162.21	100
5 x 2.5	10.80	25	34	7.410	222.37	100
5 x 4	12.40	34	44	4.610	318.45	100
5 x 6	14.60	43	56	3.080	455.90	100
5 x 10	18.10	60	75	1.830	731.67	100
5 x 16	20.80	80	98	1.150	1,062.64	100

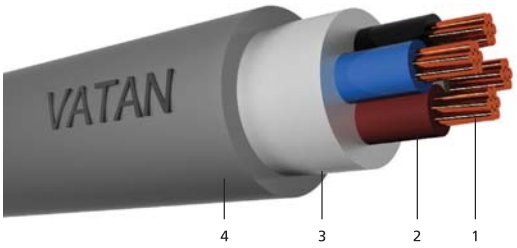
HALOJENSİZ ALEVİ İLETMEYEN ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, MULTI-CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

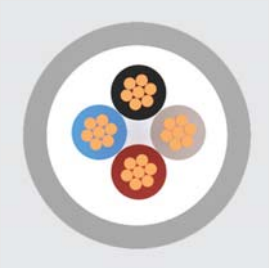
HALOGEN FREE CABLES

NHXMH 300/500 V VDE 0250



1- Bir ya da çok telli bakır iletken
2- XLPE izole
3- HFFR dolgu
4- HFFR dış kılıf

1- Solid or stranded copper conductor
2- XLPE insulation
3- HFFR filler
4- HFFR outer sheath



TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250°C
Serim sıcaklığı min 5 °C

TECHNICAL DATA
Permissible operating temperature: 90 °C
Max. short circuit temp: 250 °C
Installation temp.: 5 °C

KULLANMA YERİ
Hastaneler alışveriş merkezleri ile çok sayıda insanın yangın tehlikesi olan tesislerde kullanılır. Bu kablolar, yangın sırasında alevi iletmezler, yoğun duman oluşturmazlar. Böylece can ve mal güvenliği sağlanır.

APPLICATIONS
Used in hospitals, shopping in places where human groups are located, subject to fire danger. These cables do not conduct flame during fire and there provide health and goods protection.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	Ohm / Km	Kg	Mt
2 x 1.5	8.00	18.5	26	12.100	85.61	100
2 x 2.5	8.80	25	34	7.410	113.09	100
2 x 4	10.00	34	44	4.610	157.21	100
2 x 6	11.40	43	56	3.080	216.22	100
2 x 10	14.40	60	75	1.830	351.23	100
2 x 16	16.40	80	98	1.150	499.12	100
3 x 1.5	8.40	18.5	26	12.100	102.44	100
3 x 2.5	9.30	25	34	7.410	139.35	100
3 x 4	10.60	34	44	4.610	197.39	100
3 x 6	12.50	43	56	3.080	284.82	100
3 x 10	15.30	60	75	1.830	448.28	100
3 x 16	17.40	80	98	1.150	645.89	100
4 x 1.5	9.00	18.5	26	12.100	123.23	100
4 x 2.5	10.00	25	34	7.410	170.15	100
4 x 4	11.40	34	44	4.610	242.91	100
4 x 6	13.40	43	56	3.080	350.38	100
4 x 10	16.60	60	75	1.830	560.37	100
4 x 16	19.00	80	98	1.150	817.60	100
5 x 1.5	9.70	18.5	26	12.100	146.73	100
5 x 2.5	10.80	25	34	7.410	204.16	100
5 x 4	12.40	34	44	4.610	294.77	100
5 x 6	14.60	43	56	3.080	426.45	100
5 x 10	18.10	60	75	1.830	683.27	100
5 x 16	20.80	80	98	1.150	1,003.00	100

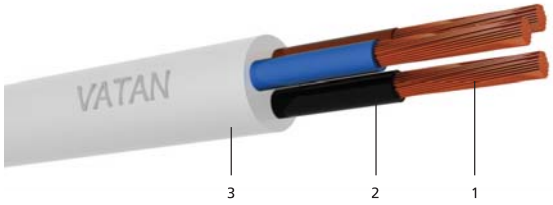
HALOJENSİZ ALEVİ İLETMEYEN ÇOK DAMARLI BÜKÜLGEN BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, MULTI -CORE CABLES WITH FLEXIBLE COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

HALOGEN FREE CABLES

H052XZ1-F 300/500 V TS 9759
NHXMH 300/500 V VDE 0250



1- İnce çok telli bakır iletken
2- XLPE izole
3- HFFR dış kılıf

1- Solid or stranded copper conductor
2- XLPE insulation
3- HFFR outer sheath

TEKNİK BİLGİLER
İzin verilen işletme sıcaklığı: 90 °C
Kısa devre sıcaklığı: 250°C
Serim sıcaklığı min 5 °C

TECHNICAL DATA
Permissible operating temperature: 90 °C
Max. short circuit temp: 250 °C
Installation temp.: 5 °C

KULLANMA YERİ
Hastaneler alışveriş merkezleri ile çok sayıda insanın yangın tehlikesi olan tesislerde kullanılır. Bu kablolar, yangın sırasında alevi iletmezler, yoğun duman oluşturmazlar. Böylece can ve mal güvenliği sağlanır.

APPLICATIONS
Used in hospitals, shopping in places where human groups are located, subject to fire danger. These cables do not conduct flame during fire and there provide health and goods protection.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*	*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Ohm / Km	Kg	Mt
2 X 0,75	6.4	6	26.00	61.81	100
2 X 1	7	10	19.50	75.55	100
2 X 1,5	8.2	15	13.30	105.68	100
2 X 2,5	9.2	20	7.98	140.56	100
2 X 4	10.6	26	4.95	195.99	100
3 X 0,75	6.8	6	26.00	85.78	100
3 X 1	7.5	10	19.50	106.77	100
3 X 1,5	9	16	13.30	155.74	100
3 X 2,5	10	20	7.98	201.83	100
3 X 4	11.5	26	4.95	280.64	100
4 X 0,75	7.4	6	26.00	120.88	100
4 X 1	8.4	10	19.50	155.47	100
4 X 1,5	10	15	13.30	225.74	100
4 X 2,5	10.9	20	7.98	282.34	100
4 X 4	13	26	4.95	404.76	100
5 X 0,75	8.3	6	26.00	169.91	100
5 X 1	9.1	10	19.50	210.92	100
5 X 1,5	11.2	15	13.30	317.06	100
5 X 2,5	12.2	20	7.98	391.25	100
5 X 4	14.2	26	4.95	543.64	100

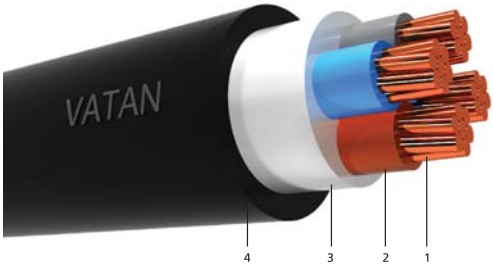
HALOJENSİZ ALEVİ İLETMEYEN XLPE İZOLELİ ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

N2XH 0.6 /1kV VDE 0276

HALOGEN FREE CABLES



1- Bir veya çok telli bakır iletken
2- XLPE izole
3- HFFR dolgu
4- HFFR dış kılıf

1- Solid or stranded copper conductor
2- XLPE insulation
3- HFFR filler
4- HFFR outer sheath

TEKNİK BİLGİLER
-İzin verilen işletme sıcaklığı: 90 °C
-Dış kılıf rengi: Siyah
-Kısa devre sıcaklığı: 250 °C
-Serim sıcaklığı min: 5 °C

TECHNICAL DATA
-Permissible operating temperature: 90°C
-Color of outer sheath: Black
-Max, short circuit temp.: 250 °C
-Installation temp. min 5 °C

KULLANMA YERİ
Bu kablolar okullar, hastaneler, toplantı ve alışveriş merkezleri gibi yerlerde dahili ve harici mekanlarda kullanılır.

APPLICATIONS
These cables are used in internal and external places school, hospital, meeting rooms and shopping centers.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi				İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*				*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A) ♣	Toprakta Ground (A) ●●●	Havada Air (A) ●●●	Toprakta Ground (A) ♣	Ohm / Km	Kg	Mt
1 x 1.5 re	5.60	25	33	26	33	12.100	45.36	1000
1 x 2.5 re	6.00	34	43	35	43	7.410	57.25	1000
1 x 4 re	6.40	45	56	46	55	4.610	73.44	1000
1 x 6 re	6.90	57	69	58	68	3.080	94.83	1000
1 x 1.5 rm	5.80	25	33	26	33	12.100	47.59	1000
1 x 2.5 rm	6.20	34	43	35	43	7.410	59.61	1000
1 x 4 rm	6.80	45	56	46	55	4.610	78.47	1000
1 x 6 rm	7.40	57	69	58	68	3.080	101.55	1000
1 x 10 rm	8.00	78	92	80	91	1.830	140.91	1000
1 x 16 rm	9.00	104	118	107	117	1.150	201.64	1000
1 x 25 rm	10.10	141	152	145	151	0.727	290.54	1000
1 x 35 rm	11.60	173	182	178	180	0.524	394.13	1000
1 x 50 rm	12.80	213	216	220	214	0.387	519.06	1000
1 x 70 rm	14.80	271	265	279	261	0.268	726.56	1000
1 x 95 rm	16.80	335	316	346	312	0.193	979.90	1000
1 x 120 rm	18.60	392	359	404	355	0.153	1,225.74	1000
1 x 150 rm	20.60	451	403	466	397	0.124	1,512.00	1000
1 x 185 rm	22.80	526	455	543	449	0.099	1,871.05	1000
1 x 240 rm	25.50	630	527	650	519	0.075	2,420.02	1000
1 x 300 rm	28.20	728	593	751	584	0.060	3,012.23	500
1 x 400 rm	31.60	848	671	875	660	0.047	3,862.25	500

HALOJENSİZ ALEVİ İLETMEYEN XLPE İZOLELİ ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

N2XH 0.6 /1kV VDE 0276

HALOGEN FREE CABLES

Teknik Özellikler / Technical Features								
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**				**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***				***Conductor DC Resistance at (20°C)***	***Net Weight***	***Delivery Lenght***
mm²	**mm**	**Havada Air (A)**	**Toprakta Ground (A)**	**Havada Air (A)**	**Toprakta Ground (A)**	**Ohm / Km**	**Kg**	**Mt**
1 x 500 rm	35.20	985	757	1018	744	0.037	4,888.64	500
1 x 630 rm	39.40	1141	849	1179	834	0.028	6,243.18	500
2 x 1.5 re	11.20	29	34	-	-	12.100	164.60	1000
2 x 2.5 re	12.00	38	44	-	-	7.410	199.32	1000
2 x 4 re	12.80	50	58	-	-	4.610	243.40	1000
2 x 6 re	13.80	64	73	-	-	3.080	301.85	1000
2 x 1.5 rm	11.60	29	34	-	-	12.100	174.43	1000
2 x 2.5 rm	12.40	38	44	-	-	7.410	209.79	1000
2 x 4 rm	13.60	50	58	-	-	4.610	265.89	1000
2 x 6 rm	14.80	64	73	-	-	3.080	332.12	1000
2 x 10 rm	16.00	88	98	-	-	1.830	432.61	1000
2 x 16 rm	18.00	116	128	-	-	1.150	594.14	1000
2 x 25 rm	20.20	154	165	-	-	0.727	821.43	1000
2 x 35 rm	23.20	190	199	-	-	0.524	1,105.30	1000
2 x 50 rm	25.60	230	236	-	-	0.387	1,424.16	1000
2 x 70 rm	29.40	292	292	-	-	0.268	1,955.33	1000
2 x 95 rm	34.20	356	348	-	-	0.193	2,672.73	1000
2 x 120 rm	37.60	414	397	-	-	0.153	3,301.89	500
2 x 150 rm	41.40	474	445	-	-	0.124	4,043.33	500
2 x 185 rm	46.60	544	502	-	-	0.099	5,075.57	500
2 x 240 rm	52.00	644	582	-	-	0.075	6,493.51	500
2 x 300 rm	57.80	737	654	-	-	0.060	8,086.55	500
2 x 400 rm	64.60	834	741	-	-	0.047	10,288.08	500
3 x 1.5 re	11.70	21	28	-	-	12.100	186.50	1000
3 x 2.5 re	12.60	32	37	-	-	7.410	231.55	1000
3 x 4 re	13.40	43	49	-	-	4.610	287.11	1000
3 x 6 re	14.50	54	61	-	-	3.080	363.93	1000
3 x 1.5 rm	12.10	21	28	-	-	12.100	196.35	1000
3 x 2.5 rm	13.00	32	37	-	-	7.410	242.06	1000
3 x 4 rm	14.30	43	49	-	-	4.610	312.90	1000
3 x 6 rm	15.60	54	61	-	-	3.080	397.81	1000
3 x 10 rm	16.90	74	83	-	-	1.830	533.00	1000
3 x 16 rm	19.00	99	107	-	-	1.150	743.94	1000
3 x 25 rm	21.40	131	139	-	-	0.727	1,050.60	1000
3 x 35 rm	24.70	162	167	-	-	0.524	1,425.55	1000
3 x 50 rm	27.40	200	203	-	-	0.387	1,862.60	1000
3 x 70 rm	31.90	252	248	-	-	0.268	2,604.39	1000
3 x 95 rm	36.70	309	298	-	-	0.193	3,528.94	1000
3 x 120 rm	40.30	359	339	-	-	0.153	4,367.84	500
3 x 150 rm	44.80	411	379	-	-	0.124	5,400.67	500
3 x 185 rm	50.00	475	430	-	-	0.099	6,721.14	500
3 x 240 rm	56.20	562	497	-	-	0.075	8,682.85	500
3 x 300 rm	62.00	645	560	-	-	0.060	10,754.68	500
3 x 400 rm	69.50	745	670	-	-	0.047	13,748.05	500
3 x 10 + 6 rm	17.90	81	89	-	-	1.830	593.97	1000

HALOJENSİZ ALEVİ İLETMEYEN XLPE İZOLELİ ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED MULTI-CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

N2XH 0.6/1 kV VDE 0276

HALOGEN FREE CABLES

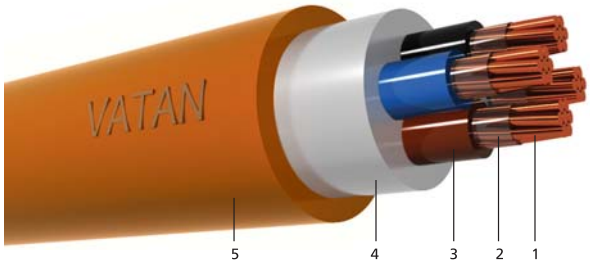
Teknik Özellikler / Technical Features						
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**		**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***		***Conductor DC Resistance at (20°C)***	***Net Weight***	***Delivery Lenght***
mm²	**mm**	**Havada Air (A)**	**Toprakta Ground (A)**	**Ohm / Km**	**Kg**	**Mt**
3 x 16 + 10 rm	20.00	108	116	1.150	855.39	1000
3 x 25 + 16 rm	22.70	146	151	0.727	1,224.36	1000
3 x 35 + 16 rm	25.40	180	181	0.524	1,573.08	1000
3 x 50 + 25 rm	28.40	212	208	0.387	2,098.70	1000
3 x 70 + 35 rm	33.40	265	254	0.268	2,955.38	1000
3 x 95 + 50 rm	37.90	327	305	0.193	3,960.45	1000
3 x 120 + 70 rm	42.70	379	347	0.153	5,071.04	500
3 x 150 + 70 rm	46.20	442	392	0.124	6,019.27	500
3 x 185 + 95 rm	51.80	504	441	0.099	7,584.41	500
3 x 240 + 120 rm	58.10	597	511	0.075	9,756.86	500
3 x 300 + 150 rm	64.10	685	576	0.060	12,078.71	500
3 x 400 + 185 rm	72.10	790	670	0.047	15,440.41	500
4 x 1.5 re	12.40	27	31	12.100	214.78	1000
4 x 2.5 re	13.40	35	41	7.410	270.89	1000
4 x 4 re	14.40	47	53	4.610	345.05	1000
4 x 6 re	15.60	59	67	3.080	441.68	1000
4 x 1.5 rm	12.90	27	31	12.100	227.87	1000
4 x 2.5 rm	13.90	35	41	7.410	284.90	1000
4 x 4 rm	15.30	47	53	4.610	371.76	1000
4 x 6 rm	16.80	59	67	3.080	480.65	1000
4 x 10 rm	18.20	81	89	1.830	652.26	1000
4 x 16 rm	20.70	108	116	1.150	929.67	1000
4 x 25 rm	23.30	146	151	0.727	1,321.02	1000
4 x 35 rm	27.10	180	181	0.524	1,807.61	1000
4 x 50 rm	30.20	212	208	0.387	2,378.65	1000
4 x 70 rm	35.20	265	254	0.268	3,333.77	1000
4 x 95 rm	40.40	327	305	0.193	4,512.41	1000
4 x 120 rm	45.10	379	347	0.153	5,668.94	500
4 x 150 rm	49.70	442	392	0.124	6,958.24	500
4 x 185 rm	55.80	504	441	0.099	8,702.70	500
4 x 240 rm	62.20	597	511	0.075	11,173.73	500
4 x 300 rm	68.70	685	576	0.060	13,861.69	500
4 x 400 rm	77.40	790	670	0.047	17,801.09	500
4 x 10 + 6 rm	19.40	81	89	1.830	725.39	1000
4 x 16 + 10 rm	21.80	108	116	1.150	1,050.25	1000
4 x 25 + 16 rm	24.80	146	151	0.727	1,512.23	1000
4 x 35 + 16 rm	28.20	180	181	0.524	1,985.49	1000
4 x 50 + 25 rm	32.00	212	208	0.387	2,680.90	1000
4 x 70 + 35 rm	37.10	265	254	0.268	3,731.20	1000
4 x 95 + 50 rm	42.90	327	305	0.193	5,083.79	1000
4 x 120 + 70 rm	47.50	379	347	0.153	6,399.27	500
4 x 150 + 70 rm	51.80	442	392	0.124	7,677.87	500
4 x 185 + 95 rm	58.40	504	441	0.099	9,699.89	500
4 x 240 + 120 rm	65.10	597	511	0.075	12,426.82	500
4 x 300 + 150 rm	72.20	685	576	0.060	15,454.72	500
4 x 400 + 185 rm	80.90	790	670	0.047	19,712.45	500
5 x 1.5 re	13.20	27	32	12.100	247.32	1000
5 x 2.5 re	14.30	36	42	7.410	315.10	1000
5 x 4 re	15.40	48	54	4.610	405.35	1000
5 x 6 re	16.70	61	68	3.080	522.28	1000
5 x 1.5 rm	13.70	27	32	12.100	260.89	1000
5 x 2.5 rm	14.80	36	42	7.410	329.65	1000
5 x 4 rm	16.40	48	54	4.610	436.84	1000
5 x 6 rm	18.10	61	68	3.080	571.14	1000
5 x 10 rm	19.70	84	91	1.830	784.75	1000
5 x 16 rm	22.40	112	118	1.150	1,122.20	1000
5 x 25 rm	25.40	152	153	0.727	1,611.86	1000
5 x 35 rm	29.80	187	184	0.524	2,224.20	1000
5 x 50 rm	33.60	227	217	0.387	2,960.24	1000
5 x 70 rm	38.90	347	252	0.268	4,125.28	1000
5 x 95 rm	45.10	305	303	0.193	5,633.22	1000
5 x 120 rm	49.60	355	346	0.153	6,989.16	500
5 x 150 rm	55.30	407	390	0.124	8,663.03	500
5 x 185 rm	61.60	469	441	0.099	10,763.52	500
5 x 240 rm	68.80	551	511	0.075	13,846.28	500
5 x 300 rm	76.50	638	580	0.060	17,271.31	500
5 x 400 rm	85.80	746	663	0.047	22,101.97	500

HALOJENSİZ ALEVİ İLETMEYEN XLPE İZOLELİ, ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED, MULTI CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR
HALOGEN FREE CABLES

N2XH FE180 0.6/1 kV VDE 0276



1- Bir veya çok telli bakır iletken
2- Mika bant
3- XLPE izole
4- HFFR dolgu
5- HFFR dış kılıf

1- Solid or stranded copper conductor
2- Mica tape
3- XLPE insulation
4- HFFR filler
5- HFFR outer sheath

TEKNİK BİLGİLER
-İzin verilen işletme sıcaklığı: 90 °C
-Dış kılıf rengi: Siyah
-Kısa devre sıcaklığı: 250 °C
-Serim sıcaklığı min: 5 °C

TECHNICAL DATA
-Permissible operating temperature: 90°C
-Colour of outer sheath: Black
-Max. short -circuit temp.: 250 °C
-Installation temp.: min 5 °C

KULLANMA YERİ
Bu kablolar okullar, hastaneler, toplantı ve alışveriş merkezleri gibi yerlerde dahili ve harici mekanlarda kullanılır.

APPLICATIONS
These cables are used in internal and external places school, hospital, meeting rooms and shopping centers.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*	*Conductor DC Resistance at (20°C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Air (A)	Ohm / Km	Kg	Mt
1 X 1,5 re	5.90	-	12.100	49.28	1000
1 X 2,5 re	6.50	-	7.410	63.96	1000
1 x 4 re	6.90	56	4.610	80.55	1000
1 x 6 re	7.40	73	3.080	102.47	1000
1 x 10 rm	8.90	101	1.830	157.90	1000
1 x 16 rm	9.9	137	1.150	221.26	1000
1 x 25 rm	11	182	0.727	312.43	1000
1 x 35 rm	12.1	226	0.524	411.19	1000
1 x 50 rm	13.3	275	0.387	536.88	1000
1 x 70 rm	15.3	353	0.268	749.44	1000
1 x 95 rm	17.1	430	0.193	1,004.70	1000
1 x 120 rm	18.9	500	0.153	1,254.17	1000
1 x 150 rm	20.9	577	0.124	1,542.14	1000
1 x 185 rm	23.1	661	0.099	1,911.60	1000
1 x 240 rm	25.8	781	0.075	2,470.86	1000
2 X 1,5 re	11.8	26	12.100	180.58	1000
2 X 2,5 re	13	36	7.410	227.47	1000
2 x 4 re	13.8	49	4.610	273.28	1000
2 x 6 re	14.8	63	3.080	333.96	1000
2 x 10 rm	17.8	86	1.830	502.43	1000
2 x 16 rm	19.8	115	1.150	673.45	1000
2 x 25 rm	22	149	0.727	909.96	1000
2 x 35 rm	24.2	185	0.524	1,167.35	1000
2 x 50 rm	26.8	225	0.387	1,503.13	1000
2 x 70 rm	30.6	289	0.268	2,050.44	1000
2 x 95 rm	34.8	352	0.193	2,747.15	1000
2 x 120 rm	38.2	420	0.153	3,385.81	1000

HALOJENSİZ ALEVİ İLETMEYEN XLPE İZOLELİ, ÇOK DAMARLI BAKIR İLETKENLİ KABLOLAR

HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED, MULTI CORE CABLES WITH COPPER CONDUCTOR

HALOJENSİZ KABLOLAR

HALOGEN FREE CABLES

N2XH FE180 0.6/1 kV VDE 0276

Teknik Özellikler / Technical Features					
Normal Kesit	**Kablo Dış Çapı**	**Akım Taşıma Kapasitesi**	**İletken DC Direnci (20 °C)**	**Net Ağırlık**	**Sevk Uzunluğu**
Rated Cross Section	***Overall Diameter Of Cable***	***Current Carrying Capacity***	***Conductor DC Resistance at (20°C)***	***Net Weight***	***Delivery Lenght***
mm^2	**mm**	**Air (A)**	**Ohm / Km**	**Kg**	**Mt**
2 x 150 rm	42.6	473	0.124	4,193.04	1000
2 x 185 rm	47.2	542	0.099	5,190.52	1000
2 x 240 rm	52.6	641	0.075	6,632.86	1000
3 X 1,5 re	12.3	23	12.100	203.05	1000
3 X 2,5 re	13.6	33	7.410	260.46	1000
3 x 4 re	14.5	42	4.610	321.08	1000
3 x 6 re	15.6	54	3.080	400.56	1000
3 x 10 rm	18.8	75	1.830	610.13	1000
3 x 16 rm	21	100	1.150	836.92	1000
3 x 25 rm	23.4	127	0.727	1,154.72	1000
3 x 35 rm	25.7	158	0.524	1,494.24	1000
3 x 50 rm	28.5	192	0.387	1,942.36	1000
3 x 70 rm	33.2	246	0.268	2,719.51	1000
3 x 95 rm	37.3	298	0.193	3,619.71	1000
3 x 120 rm	41	246	0.153	4,480.41	1000
3 x 150 rm	45.6	399	0.124	5,532.30	1000
3 x 185 rm	50.6	456	0.099	6,865.22	1000
3 x 240 rm	56.8	538	0.075	8,860.85	1000
3 x 10+6 rm	19.8	75	1.830	675.45	1000
3 x 16+10 rm	22.2	100	1.150	961.19	1000
3 x 25+16 rm	24.8	127	0.727	1,338.08	1000
3 x 35+16 rm	27	158	0.524	1,678.81	1000
3 x 50+25 rm	30.1	192	0.387	2,220.44	1000
3 x 70+35rm	34.6	246	0.268	3,067.03	1000
3 x 95+50 rm	39	298	0.193	4,098.08	1000
3 x 120+70 rm	43.6	246	0.153	5,208.73	1000
3 x 150+70 rm	47.1	399	0.124	6,165.30	1000
3 x 185+95 rm	52.5	456	0.099	7,748.92	1000
3 x 240+120 rm	58.8	538	0.075	9,958.04	1000
4 X 1,5 re	13.2	23	12.100	238.36	1000
4 X 2,5 re	14.6	33	7.410	307.86	1000
4 x 4 re	15.6	42	4.610	384.55	1000
4 x 6 re	16.8	54	3.080	484.32	1000
4 x 10 rm	20.4	75	1.830	748.60	1000
4 x 16 rm	22.8	100	1.150	1,035.59	1000
4 x 25 rm	25.5	127	0.727	1,445.58	1000
4 x 35 rm	28.4	158	0.524	1,905.03	1000
4 x 50 rm	31.9	192	0.387	2,512.78	1000
4 x 70 rm	36.6	246	0.268	3,472.76	1000
4 x 95 rm	41.2	298	0.193	4,640.60	1000
4 x 120 rm	45.8	246	0.153	5,804.59	1000
4 x 150 rm	50.4	399	0.124	7,102.70	500
4 x 185 rm	56.5	456	0.099	8,892.60	500
4 x 240 rm	63	538	0.075	11,422.56	500
5 X 1,5 re	14	23	12.100	272.27	1000
5 X 2,5 re	15.6	33	7.410	357.63	1000
5 x 4 re	16.7	42	4.610	450.87	1000
5 x 6 re	18.1	54	3.080	575.73	1000
5 x 10 rm	22.1	75	1.830	898.30	1000
5 x 16 rm	24.8	100	1.150	1,253.54	1000
5 x 25 rm	28	127	0.727	1,773.03	1000
5 x 35 rm	31.6	158	0.524	2,369.93	1000
5 x 50 rm	35	192	0.387	3,085.59	1000
5 x 70 rm	40.3	246	0.268	4,281.62	1000
5 x 95 rm	45.9	298	0.193	5,783.09	1000
5 x 120 rm	50.4	246	0.153	7,159.27	1000
5 x 150 rm	56.1	399	0.124	8,845.40	500
5 x 185 rm	62.4	456	0.099	11,002.00	500
5 x 240 rm	70.2	538	0.075	14,239.08	500

VATAN
KABLO

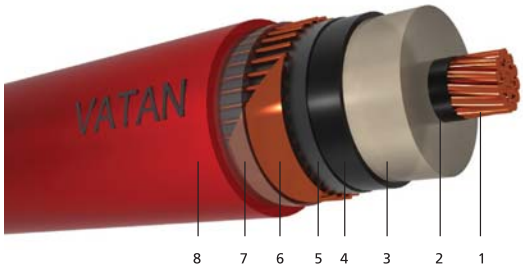
Orta Gerilim Kabloları
Medium Voltage Cables

3.6/6 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

3.6/6 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

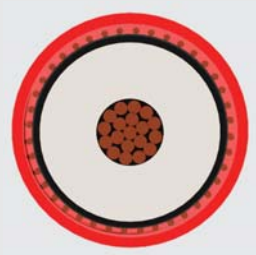
ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R 3.6/6 kV TS IEC 60502-2
N2XSY 3.6/6 kV VDE 0276



1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath



TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x25/16	19.00	162	166	0.68	0.25	0.727	650	1000
1x35/16	20.00	196	198	0.66	0.28	0.524	750	1000
1x50/16	21.00	235	234	0.63	0.32	0.387	900	1000
1x70/16	23.00	293	286	0.60	0.37	0.268	1100	1000
1x95/16	25.00	358	341	0.58	0.41	0.193	1400	1000
1x120/16	26.30	413	387	0.56	0.46	0.153	1600	1000
1x150/25	27.80	469	431	0.54	0.50	0.124	2050	1000
1x185/25	29.80	537	485	0.53	0.54	0.0991	2400	1000
1x240/25	32.60	633	559	0.51	0.59	0.0754	2950	1000
1x300/25	35.00	722	626	0.49	0.60	0.0601	3680	1000
1x400/35	39.20	826	696	0.47	0.64	0.0470	4660	1000
1x500/35	43.00	943	777	0.46	0.67	0.0366	5750	1000
1x630/35	47.60	1069	860	0.44	0.74	0.0283	7000	1000

3.6/6 kV XLPE İZOLELİ, YASSI ÇELİK TEL ZIRHLI ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

3.6/6 kV XLPE INSULATED FLAT STEEL WIRE ARMOURED THREE CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R 3.6/6 kV TS IEC 60502-2
N2XSEYFGbY 3.6/6 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	ΜF / km	Ohm / Km	Kg	Mt
3x25/16	44.7	141	149	0.37	0.20	0.727	3450	1000
3x35/16	47.30	171	176	0.35	0.22	0.524	4080	1000
3x50/16	50.00	196	208	0.34	0.25	0.387	4700	1000
3x70/16	54.00	249	255	0.32	0.28	0.268	5650	500
3x95/16	58.30	307	307	0.30	0.32	0.193	6850	500
3x120/16	62.30	353	353	0.29	0.35	0.153	8000	500
3x150/25	65.10	406	396	0.28	0.38	0.124	9200	500
3x185/25	69.80	464	447	0.27	0.42	0.0991	10700	500
3x240/25	78.80	548	523	0.26	0.47	0.0754	13100	250
3x300/25	82.20	632	581	0.26	0.48	0.0601	15850	250
3x400/35	90.80	726	653	0.25	0.52	0.0470	19700	250

6/10 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

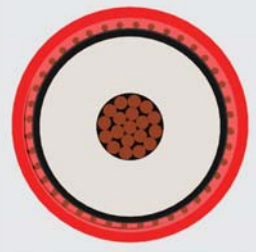
6/10 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R 6/10 kV TS IEC 60502-2
N2XSY 6/10 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath



TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TSIEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also These cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x25/16	20.30	164	166	0.69	0.20	0.727	680	1000
1x35/16	22.00	199	198	0.66	0.22	0.524	820	1000
1x50/16	23.20	238	233	0.64	0.25	0.387	970	1000
1x70/16	25.00	297	285	0.61	0.29	0.268	1200	1000
1x95/16	26.80	362	340	0.58	0.32	0.193	1450	1000
1x120/16	28.40	417	387	0.56	0.35	0.153	1700	1000
1x150/25	29.50	473	431	0.55	0.38	0.124	2100	1000
1x185/25	31.60	541	485	0.53	0.42	0.0991	2500	1000
1x240/25	34.40	637	559	0.51	0.46	0.0754	3030	1000
1x300/25	36.40	724	625	0.49	0.51	0.0601	3750	1000
1x400/35	40.20	824	696	0.47	0.57	0.0470	4700	1000
1x500/35	43.40	944	778	0.46	0.63	0.0366	5700	1000
1x630/35	48.00	1071	861	0.44	0.70	0.0283	7000	1000

6/10 kV XLPE İZOLELİ, YASSI ÇELİK TEL ZIRHLI ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

6/10 kV XLPE INSULATED FLAT STEEL WIRE ARMOURED THREE CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R 6/10 kV TS IEC 60502-2
N2XSEYFGbY 6/10 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -20 °C
Standart: TS IEC 60502 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -20 °C
Standarts: TS IEC 60502 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x25/16	50.00	143	148	0.39	0.17	0.727	4000	500
3x35/16	52.00	173	178	0.37	0.19	0.524	4600	500
3x50/16	54.40	206	210	0.36	0.21	0.387	5250	500
3x70/16	59.00	257	256	0.34	0.24	0.268	6300	500
3x95/16	63.00	313	307	0.32	0.26	0.193	7500	500
3x120/16	66.60	360	349	0.31	0.29	0.153	8600	500
3x150/25	69.60	410	392	0.30	0.31	0.124	10000	500
3x185/25	74.10	469	443	0.29	0.34	0.0991	11600	250
3x240/25	80.70	553	513	0.28	0.39	0.0754	13900	250
3x300/25	85.20	635	579	0.27	0.42	0.0601	16600	250
3x400/35	92.50	731	650	0.26	0.48	0.0470	20000	250

8.7/15 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

8.7/15 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R 8.7/15 kV TS IEC 60502-2
N2XSY 8.7/15 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x25/16	22.00	167	165	0.69	0.16	0.727	800	1000
1x35/16	24.00	202	197	0.67	0.18	0.524	900	1000
1x50/16	25.00	241	233	0.64	0.20	0.387	1050	1000
1x70/16	27.00	300	285	0.61	0.23	0.268	1250	1000
1x95/16	28.80	365	340	0.59	0.26	0.193	1550	1000
1x120/16	30.50	421	386	0.57	0.28	0.153	1800	1000
1x150/25	31.80	477	431	0.55	0.30	0.124	2250	1000
1x185/25	33.80	545	485	0.53	0.33	0.0991	2600	1000
1x240/25	36.60	641	559	0.51	0.36	0.0754	3150	1000
1x300/25	38.50	728	626	0.50	0.40	0.0601	3850	1000
1x400/35	42.20	830	597	0.48	0.45	0.0470	4850	1000
1x500/35	45.60	950	780	0.46	0.49	0.0366	5900	1000
1x630/35	50.20	1078	865	0.46	0.54	0.0283	7150	1000

8.7/15 kV XLPE İZOLELİ, YASSI ÇELİK TEL ZIRHLI ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

8.7/15 kV XLPE INSULATED FLAT STEEL WIRE ARMOURED THREE CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R 8.7/15 kV TS IEC 60502-2
N2XSEYFGbY 8.7/15 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -20 °C
Standart: TS IEC 60502 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -20 °C
Standarts: TS IEC 60502 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x25/16	54.50	143	148	0.42	0.15	0.727	4600	500
3x35/16	57.00	173	178	0.40	0.16	0.524	5250	500
3x50/16	60.00	206	210	0.38	0.17	0.387	6000	500
3x70/16	64.20	257	256	0.36	0.19	0.268	7100	500
3x95/16	68.30	313	307	0.34	0.22	0.193	8300	500
3x120/16	71.70	360	349	0.33	0.24	0.153	9400	250
3x150/25	74.70	410	392	0.32	0.26	0.124	10900	250
3x185/25	79.80	469	443	0.30	0.28	0.0991	12600	250
3x240/25	86.00	553	513	0.29	0.31	0.0754	15000	250
3x300/25	90.80	635	576	0.28	0.34	0.0601	17700	250
3x400/35	99.30	731	650	0.27	0.38	0.0470	21300	250

12/20 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

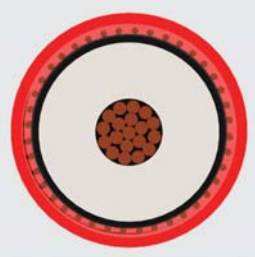
12/20 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R 12/20 kV TS IEC 60502-2
N2XSY 12/20 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath



TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x25/16	24.00	169	165	0.69	0.14	0.727	850	1000
1x35/16	26.00	204	197	0.67	0.16	0.524	950	1000
1x50/16	27.00	244	233	0.64	0.17	0.387	1150	1000
1x70/16	29.00	303	284	0.61	0.20	0.268	1350	1000
1x95/16	30.80	368	340	0.59	0.22	0.193	1650	1000
1x120/16	32.40	424	386	0.57	0.24	0.153	1900	1000
1x150/25	33.80	479	431	0.55	0.26	0.124	2300	1000
1x185/25	35.60	548	485	0.53	0.28	0.0991	2700	1000
1x240/25	38.50	643	559	0.51	0.31	0.0754	3250	1000
1x300/25	40.50	731	626	0.50	0.34	0.0601	4000	1000
1x400/35	44.20	834	699	0.48	0.38	0.0470	5000	1000
1x500/35	47.40	955	782	0.46	0.41	0.0366	6050	1000
1x630/35	52.20	1084	869	0.46	0.46	0.0283	7300	1000

12/20 kV XLPE İZOLELİ, YASSI ÇELİK TEL ZIRHLI, ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

12/20 kV XLPE INSULATED, FLAT STEEL WIRE ARMOURED, THREE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R	12/20 kV	TS IEC 60502-2
N2XSEYFGbY	12/20 kV	VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x35/16	63,00	182	183	0,42	0,14	0,524	6000	500
3x50/16	65,00	218	214	0,40	0,16	0,387	6600	500
3x70/16	69,00	271	264	0,38	0,17	0,268	7650	500
3x95/16	73,20	323	313	0,36	0,19	0,193	9000	250
3x120/16	77,00	374	356	0,34	0,21	0,153	10200	250
3x150/16	80,00	419	400	0,33	0,23	0,124	11650	250
3x185/25	85,00	488	452	0,32	0,24	0,0991	13300	250
3x240/25	91,00	579	530	0,31	0,28	0,0754	15700	250
3x300/25	97,00	654	604	0,30	0,30	0,0601	18400	250
3x400/25	106,00	754	688	0,28	0,33	0,0470	22200	250

18/30 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

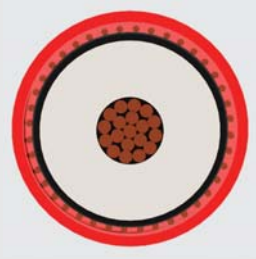
18/30 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R 18/30 kV TS IEC 60502-2
N2XSY 18/30 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath



TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	31,40	169	165	0,694	0,12	0,524	1200	1000
1x50/16	32,40	248	232	0,668	0,14	0,387	1350	1000
1x70/16	34,40	307	284	0,637	0,15	0,268	1600	1000
1x95/16	36,20	373	339	0,612	0,17	0,193	1950	1000
1x120/16	37,80	439	385	0,593	0,18	0,153	2200	1000
1x150/16	39,00	484	430	0,578	0,19	0,124	2650	1000
1x185/25	41,00	552	484	0,561	0,21	0,0991	3050	1000
1x240/25	43,80	649	559	0,541	0,23	0,0754	3600	1000
1x300/25	45,80	737	627	0,524	0,25	0,0601	4350	1000
1x400/25	49,60	841	701	0,503	0,28	0,0470	5400	1000
1x500/35	52,80	963	786	0,487	0,30	0,0366	6450	500
1x630/35	57,60	1094	875	0,47	0,33	0,0283	7850	500

18/30 kV XLPE İZOLELİ,YASSI ÇELİK TEL ZIRHLI, ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

18/30 kV XLPE INSULATED, FLAT STEEL WIRE ARMOURED, THREE-CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R 18/30 kV TS IEC 60502-2
N2XSEYFGbY 18/30 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x35/16	73,00	182	183	0,46	0,11	0,524	7900	500
3x50/16	77,30	217	214	0,44	0,12	0,387	8600	250
3x70/16	81,40	269	261	0,41	0,14	0,268	10000	250
3x95/16	85,80	326	313	0,39	0,16	0,193	11300	250
3x120/16	89,00	377	356	0,38	0,17	0,153	12700	250
3x150/25	92,00	426	400	0,36	0,19	0,124	14000	250
3x185/25	96,50	488	441	0,35	0,20	0,0991	15750	200
3x240/25	103,40	576	510	0,33	0,21	0,0754	18450	200
3x300/25	107,80	654	604	0,32	0,23	0,0601	21350	200
3x400/35	115,00	754	688	0,30	0,25	0,0470	25400	200

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC7V-R	20.3/35 kV	TS IEC 60502-2
N2XSY	20.3/35 kV	VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester bant
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	33,8	169	165	0,69	0,12	0,524	1300	1000
1x50/16	34,8	249	232	0,66	0,13	0,387	1500	1000
1x70/16	36,8	308	284	0,63	0,14	0,268	1750	1000
1x95/16	38,4	375	339	0,60	0,15	0,193	2050	1000
1x120/16	40	430	385	0,59	0,17	0,153	2350	1000
1x150/16	41,4	485	430	0,57	0,18	0,124	2800	1000
1x185/25	43,4	554	484	0,55	0,19	0,0991	3200	1000
1x240/25	46,2	653	559	0,53	0,21	0,0754	3750	1000
1x300/25	48,2	739	627	0,51	0,23	0,0601	4550	1000
1x400/25	52,00	842	701	0,49	0,25	0,0470	550	500
1x500/35	55,20	965	786	0,48	0,27	0,0366	6650	500
1x630/35	60,00	1096	875	0,46	0,30	0,0283	8000	500

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI,BOYLAMASINA SU GEÇİRMEZ, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED LONGITUDINALLY SEALED, SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI

N2XS(F)2Y 20.3/ 35 kV TS IEC 60502-2, VDE 0276

MEDIUM VOLTAGE CABLES

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken şişen bant
6- Bakır ekran
7- Şişen Bant
8- PE dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive tape
6- Copper wire screen
7- Swellable tape
8- PE outer sheath

TEKNİK BİLGİLER

Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA

Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ

Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde ve yük artışları beklenen şebekelerde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır.Kablonun mekanik darbelerden su alması durumunda şişen bant tutucu görev yaparak suyu engeller.

APPLICATIONS

They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high such as urban and industrial areas fed by electrical energy. If cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x25/16	35,80	169	165	0,69	0,12	0,524	1200	1000
1x35/16	37,00	249	232	0,66	0,13	0,387	1400	1000
1x50/16	39,00	30	284	0,63	0,14	0,268	1650	1000
1x70/16	40,50	375	339	0,60	0,15	0,193	1950	1000
1x95/16	42,40	430	385	0,59	0,17	0,153	2250	1000
1x120/16	43,60	485	430	0,57	0,18	0,124	2700	1000
1x150/25	45,50	554	484	0,55	0,19	0,0991	3050	1000
1x185/25	48,00	653	559	0,53	0,21	0,0754	3600	1000
1x240/25	50,00	739	627	0,51	0,23	0,0601	4400	1000
1x300/25	54,00	842	701	0,49	0,25	0,0470	5350	500
1x400/35	57,00	965	786	0,48	0,27	0,0366	6450	500
1x500/35	62,00	1096	875	0,46	0,30	0,0283	7800	500

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI,ENLEMESİNE VE BOYLAMASINA SU GEÇİRMEZ, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED,RADIAL AND LONGITUDINALLY SEALED, SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

N2XS(FL)2Y 20.3/35 kV TS IEC 60502-2, VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken şişen bant
6- Bakır ekran
7- Şişen Bant
8- PE kaplı alüminyum folyo
9- PE dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive swellable tape
6- Copper wire screen
7- Swellable tape
8- PE coated aluminium tape
9- PE outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde ve yük artışları beklenen şebekelerde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır.Kablonun mekanik darbelerden su alması durumunda şişen bant tutucu görev yaparak suyu engeller.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high such as urban and industrial areas fed by electrical energy. If cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	ÞF / km	Ohm / Km	Kg	Mt
1x35/16	36,00	169	165	0,69	0,12	0,524	1230	1000
1x50/16	37,20	249	232	0,66	0,13	0,387	1430	1000
1x70/16	39,20	308	284	0,63	0,14	0,268	1680	1000
1x95/16	40,80	375	339	0,30	0,15	0,193	1980	1000
1x120/16	42,60	430	385	0,59	0,17	0,153	2300	1000
1x150/16	43,80	485	430	0,57	0,18	0,124	2740	1000
1x185/25	45,80	554	484	0,55	0,19	0,0991	3100	1000
1x240/25	48,20	653	559	0,53	0,21	0,0754	3640	1000
1x300/25	50,20	739	627	0,51	0,23	0,0601	4450	1000
1x400/25	54,20	842	701	0,49	0,25	0,0470	5400	500
1x500/35	57,20	965	786	0,48	0,27	0,0366	6500	500
1x630/35	62,20	1096	875	0,46	0,30	0,0283	7850	500

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ HFFR DIŞ KILIFLI KABLOLAR

20.3/35 kV HALOGEN FREE, FLAME RETARDANT, XLPE INSULATED SINGLE -CORE CABLES WITH COPPER CONDUCTOR

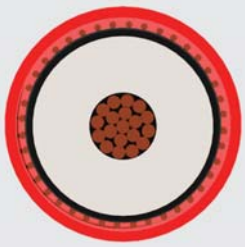
ORTA GERİLİM KABLOLARI

MEDIUM VOLTAGE CABLES

N2XSH 20.3/35 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester bant
8- HFFR dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- HFFR outer sheath



TEKNİK BİLGİLER

Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA

Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ

Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS

They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

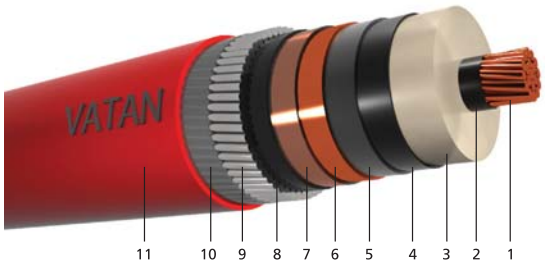
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	33,8	169	165	0,69	0,12	0,524	1300	1000
1x50/16	34,8	249	232	0,66	0,13	0,387	1500	1000
1x70/16	36,8	308	284	0,63	0,14	0,268	1750	1000
1x95/16	38,4	375	339	0,60	0,15	0,193	2050	1000
1x120/16	40	430	385	0,59	0,17	0,153	2350	1000
1x150/16	41,4	485	430	0,57	0,18	0,124	2800	1000
1x185/25	43,4	554	484	0,55	0,19	0,0991	3200	1000
1x240/25	46,2	653	559	0,53	0,21	0,0754	3750	1000
1x300/25	48,2	739	627	0,51	0,23	0,0601	4550	1000
1x400/25	52,00	842	701	0,49	0,25	0,0470	550	500
1x500/35	55,20	965	786	0,48	0,27	0,0366	6650	500
1x630/35	60,00	1096	875	0,46	0,30	0,0283	8000	500

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI, YUVARLAK ÇELİK TEL ZIRHLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED ROUND STEEL WIRE ARMOURED, SINGLE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

N2XSYRY 20.3/35 kV TS IEC 60502-2, VDE 0276



1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester bant
8- Ayırıcı kılıf
9- Yuvarlak çelik tel zırh
10- Polyester bant
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive tape
6- Copper wire screen
7- Polyester tape
8- Seperation sheath
9- Galvanized round steel wire armour
10- Polyester tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

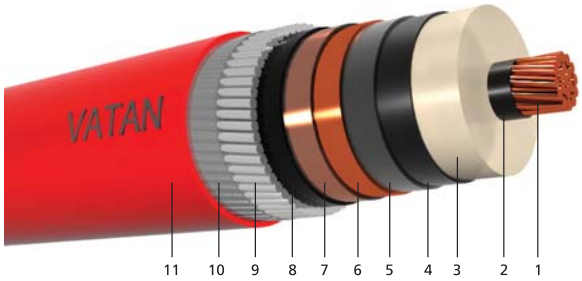
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	40,00	177	165	0,73	0,12	0,524	2600	1000
1x50/16	42,00	253	232	0,71	0,13	0,387	2800	1000
1x70/16	45,00	312	282	0,68	0,14	0,268	3500	1000
1x95/16	47,00	373	332	0,64	0,15	0,193	3850	1000
1x120/16	49,00	425	373	0,62	0,17	0,153	4200	1000
1x150/16	50,50	476	410	0,60	0,18	0,214	4700	1000
1x185/25	52,50	536	456	0,58	0,19	0,0991	5200	1000
1x240/25	56,00	613	517	0,56	0,21	0,0754	6000	500
1x300/25	58,00	687	569	0,54	0,23	0,0601	6850	500
1x400/25	62,50	770	621	0,51	0,25	0,0470	8100	500
1x500/35	66,00	859	678	0,50	0,27	0,0366	9300	500
1x630/35	70,00	947	732	0,49	0,30	0,0283	10500	500

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI, ALÜMİNYUM TEL ZIRHLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED SINGLE -CORE, ALUMINIUM WIRE ARMOURED CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

N2XSYR(AL)Y 20.3/35 kV TS IEC 60502-2, VDE 0276



1- Çok telli bakır iletken	1- Stranded copper conductor
2- İç yarı iletken	2- Inner semi condutive layer
3- XLPE izole	3- XPLE insulation
4- Dış yarı iletken	4- Outer semi conductive layer
5- Yarı iletken bant	5- Semi conductive tape
6- Bakır ekran	6- Copper wire screen
7- Polyester bant	7- Polyester tape
8- Ayırıcı kılıf	8- Seperation sheath
9- Alüminyum tel zırh	9- Aluminum steel wire armour
10-Polyester bant	10- Polyester tape
11-PVC dış kılıf	11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also These cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	40,00	177	165	0,73	0,12	0,524	1950	1000
1x50/16	42,00	253	232	0,71	0,13	0,387	2150	1000
1x70/16	45,00	312	282	0,68	0,14	0,268	2550	1000
1x95/16	47,00	373	332	0,64	0,15	0,193	2900	1000
1x120/16	49,00	425	373	0,62	0,17	0,153	3250	1000
1x150/16	50,50	476	410	0,60	0,18	0,214	3700	1000
1x185/25	52,50	536	456	0,58	0,19	0,0991	4150	1000
1x240/25	56,00	618	517	0,56	0,21	0,0754	4850	500
1x300/25	58,00	687	569	0,54	0,23	0,0601	5650	500
1x400/25	62,50	770	621	0,51	0,25	0,0470	6750	500
1x500/35	66,00	859	678	0,50	0,27	0,0366	7900	500
1x630/35	70,00	947	732	0,49	0,30	0,0283	9300	500

20.3/35 kV XLPE İZOLELİ,ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED THREE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8V-R 20.3/35 kV TS IEC 60502-2
N2XSEY 20.3/35 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Dolgu
8- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive tape
6- Copper wire screen
7- Filler
8- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also These cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

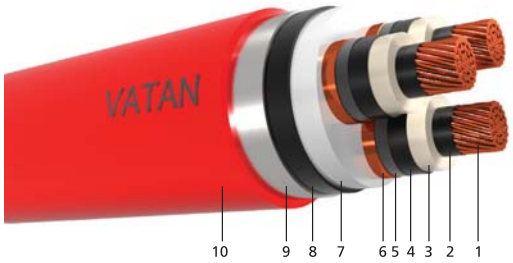
Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x35/16	73,50	182	183	0,48	0,10	0,524	6600	500
3x50/16	76,00	217	214	0,45	0,11	0,387	7300	250
3x70/16	79,90	269	261	0,42	0,12	0,268	8400	250
3x95/16	83,60	326	313	0,41	0,14	0,193	9600	250
3x120/16	87,20	377	356	0,39	0,15	0,153	10750	250
3x150/25	90,00	426	400	0,37	0,16	0,124	12200	250
3x185/25	95,00	488	441	0,36	0,17	0,0991	13900	200
3x240/25	100,00	576	510	0,34	0,18	0,0754	16350	200
3x300/25	105,00	654	604	0,33	0,20	0,0601	19000	200
3x400/35	110,00	754	688	0,31	0,24	0,0470	22650	200

20.3/35 kV XLPE İZOLELİ,ÜÇ DAMARLI,ÇİFT KAT ÇELİK BANT ZIRHLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED DOUBLE STEEL TAPE ARMOURED, THREE-CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ4V-R 20.3/35 kV TS IEC 60502-2
N2XSEYBY 20.3/35 kV VDE 0276



1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Dolgu
8- Ara kılıf
9- Çift kat galvanizli çelik bant
10-PVC dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized double steel tape
10- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x50/16	81,00	214	214	0,44	0,11	0,387	8250	250
3x70/16	84,00	269	261	0,42	0,12	0,268	9300	250
3x95/16	88,00	326	313	0,41	0,14	0,193	11300	250
3x120/16	92,00	377	356	0,39	0,15	0,153	12700	200
3x150/25	95,00	426	400	0,37	0,16	0,124	13950	200
3x185/25	99,00	510	441	0,36	0,17	0,0991	15650	200
3x240/25	105,00	579	510	0,34	0,18	0,0754	18500	200
3x300/25	111,00	654	604	0,32	0,23	0,0601	21100	200
3x400/35	119,00	754	688	0,30	0,25	0,0470	25350	200

20.3/35 kV XLPE İZOLELİ, ÜÇ DAMARLI, YUVARLAK ÇELİK TEL ZIRHLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED, ROUND STEEL WIRE ARMOURED, THREE-CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ2V-R 20.3/35 kV TS IEC 60502-2
N2XSEYRGbY 20.3/35 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Dolgu
8- Ara kılıf
9- Galvanizli yuvarlak çelik tel
10-Galvanizli çelik bant
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized round steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also These cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x50/16	87,50	214	214	0,45	0,11	0,387	11300	250
3x70/16	91,00	269	261	0,42	0,12	0,268	12300	250
3x95/16	96,60	326	313	0,41	0,14	0,193	13350	250
3x120/16	99,30	377	356	0,39	0,15	0,153	14250	250
3x150/25	102,00	426	400	0,37	0,16	0,124	15100	200
3x185/25	107,00	510	441	0,36	0,17	0,0991	16500	200
3x240/25	113,00	579	510	0,34	0,18	0,0754	18200	200
3x300/25	119,00	654	604	0,32	0,23	0,0601	19000	200

20.3/35 kV XLPE İZOLELİ,YASSI ÇELİK TEL ZIRHLI, ÜÇ DAMARLI, BAKIR İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED, FLAT STEEL WIRE ARMOURED, THREE -CORE CABLES WITH COPPER CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YXC8VZ3V-R 20.3/35 kV TS IEC 60502-2
N2XSEYFGbY 20.3/35 kV VDE 0276

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- PVC dolgu
8- Ayırıcı kılıf
9- Galvanizli çelik bant
10- Yassı galvanizli çelik tel
11- PVC dış kılıf

1- Stranded copper conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x35/16	80,00	182	182	0,47	0,10	0,524	8750	250
3x50/16	82,00	217	214	0,46	0,11	0,387	9550	250
3x70/16	86,50	269	261	0,44	0,12	0,268	10800	250
3x95/16	90,50	326	313	0,42	0,14	0,193	12200	250
3x120/16	94,40	377	356	0,39	0,15	0,153	13500	200
3x150/25	97,40	426	400	0,37	0,16	0,124	15050	200
3x185/25	102,00	510	441	0,36	0,17	0,0991	16900	200
3x240/25	108,50	579	510	0,34	0,18	0,0754	19550	200
3x300/25	113,00	654	604	0,32	0,23	0,0601	22400	200
3x400/35	120,30	754	688	0,31	0,25	0,0470	26600	200

20.3/35 kV XLPE İZOLELİ, TEK DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

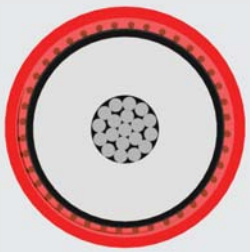
20.3/35 kV XLPE INSULATED SINGLE -CORE CABLES WITH ALUMINIUM CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YAXC7V-R 20.3/35 kV TS IEC 60502-2
NA2XSY 20.3/35 kV VDE 0276

1- Çok telli alüminyum iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Polyester Bant
8- PVC dış kılıf

1- Stranded aluminium conductor
2- Inner semi-conductive layer
3- XLPE insulation
4- Outer conductive layer
5- Semi-conductive tape
6- Copper wire screen
7- Polyester tape
8- PVC outer sheath



TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C (Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C (Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm²	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
1x35/16	34.40	158	157	0.69	0.12	0.868	1150	1000
1x50/16	36.00	193	180	0.66	0.13	0.641	1250	1000
1x70/16	38.00	239	220	0.63	0.14	0.443	1400	1000
1x95/16	39.60	290	264	0.60	0.15	0.320	1500	1000
1x120/16	41.30	334	300	0.59	0.17	0.2530	1700	1000
1x150/25	43.00	377	335	0.57	0.18	0.2060	1900	1000
1x185/25	45.00	431	379	0.55	0.19	0.1640	2100	1000
1x240/25	48300	509	439	0.53	0.21	0.1250	2400	1000
1x300/25	50.50	581	494	0.51	0.23	0.1000	2700	1000
1x400/35	54.60	677	563	0.49	0.25	0.0788	3200	1000
1x500/35	58.00	782	639	0.48	0.27	0.0605	3700	1000
1x630/35	61.70	900	721	0.46	0.30	0.0469	4200	1000

20.3/35 kV XLPE İZOLELİ, YASSI ÇELİK TEL ZIRHLI ÜÇ DAMARLI, ALÜMİNYUM İLETKENLİ KABLOLAR

20.3/35 kV XLPE INSULATED FLAT STEEL WIRE ARMOURED THREE CORE CABLES WITH ALUMINIUM CONDUCTOR

ORTA GERİLİM KABLOLARI
MEDIUM VOLTAGE CABLES

YAXC8VZ3V-R 20.3/35 kV TS IEC 60502-2
NA2XSEYFGbY 20.3/35 kV VDE 0276

1- Çok telli alüminyum iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken bant
6- Bakır ekran
7- Dolgu
8- Ara kılıf
9- Yassı galvanizli çelik zırh
10- Galvanizli çelik bant
11- PVC dış kılıf

1- Stranded aluminium conductor
2- Inner semi-conductive
3- XLPE insulation
4- Outer semi - conductive layer
5- Semi- conductive tape
6- Copper wire screen
7- Filler
8- Seperation sheath
9- Galvanized flat steel wire
10- Galvanized steel tape
11- PVC outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60502-2 VDE 0276

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60502-2 VDE 0276

KULLANMA YERİ
Bu kablolar, kısa devre akımlarının büyük olduğu yerleşim ve sanayi bölgelerinin elektrik enerjisi ile beslenmelerinde, hariçte, kablo kanallarında, dahilde ve toprak altlarında kullanılır. Ayrıca bu kablolar mekanik zorlamaların bulunduğu yerlerde kullanılır.

APPLICATIONS
They are used in cable ducts, outdoor and indoor installations, under ground where the short circuit levels are high and industrial areas fed by electrical also these cables use where there is risk of mechanical damage.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma İndüktansı	Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Inductance*	*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada Air (A)	Toprakta Ground (A)	mH / Km	µF / km	Ohm / Km	Kg	Mt
3x50/16	82.60	166	168	0.45	0.11	0.641	8650	250
3x70/16	86.50	205	205	0.42	0.12	0.443	9500	250
3x95/16	90.80	249	246	0.41	0.14	0.320	10500	250
3x120/16	94.40	285	278	0.39	0.15	0.253	11250	200
3x150/25	97.40	322	311	0.37	0.16	0.206	12250	200
3x185/25	102.00	369	352	0.36	0.17	0.1640	13500	200
3x240/25	108.50	434	408	0.34	0.18	0.1250	15400	200
3x300/25	113.00	494	458	0.32	0.23	0.1000	16600	200
3x400/35	120.30	569	517	0.30	0.25	0.0788	18950	200

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Yüksek Gerilim Kabloları
High Voltage Cables

40/69 kV XLPE İZOLELİ, YÜKSEK GERİLİM ENERJİ KABLOLARI

40/69 kV XLPE INSULATED,
HIGH VOLTAGE ENERGY CABLES

YÜKSEK GERİLİM KABLOLARI
HIGH VOLTAGE CABLES

N2XS(FL)2Y 40/69 kV TS IEC 60840

1- Çok telli bakır iletken
2- İç yarı iletken
3- XLPE izole
4- Dış yarı iletken
5- Yarı iletken şişen bant
6- Bakır ekran
7- Şişen Bant
8- Alüminyum bant
9- PE dış kılıf

1- Stranded copper conductor
2- Inner semi condutive layer
3- XPLE insulation
4- Outer semi conductive layer
5- Semi conductive swellable tape
6- Copper wire screen
7- Swellable tape
8- Aluminium tape
9- PE outer sheath

TEKNİK BİLGİLER
Maksimum işletme sıcaklığı: 90 °C
Maksimum kısa devre sıcaklığı: 250 °C
(Maksimum 5 sn için)
Serin sıcaklığı min: -10 °C
Standart: TS IEC 60840

TECHNICAL DATA
Maximum operating temp. : 90 °C
Maximum short circuit temp. : 250 °C
(Maximum 5 sec.)
Installation temp. min: -10 °C
Standarts: TS IEC 60840

KULLANMA YERİ
Bu kablolar, ani yük değişimlerinin olduğu şebekeler ile kısa devre akımlarının büyük olduğu yerleşim ve endüstri bölgelerinde, kablo kanallarında, toprak altında ve havada kullanılır. Kablonun mekanik darbelerden dolayı su almasını şişen bantlar önler.

APPLICATIONS
These cables used in energy networks with sudden load changes laid in residential or industrial areas, underground or in ducts. If the cables gets water inside due to the mechanical damages swellable tapes prevent the water.

Teknik Özellikler / Technical Features

Normal Kesit	Kablo Dış Çapı	Akım Taşıma Kapasitesi		Çalışma Kapasitesi	İletken DC Direnci (20 °C)	Net Ağırlık	Sevk Uzunluğu
Rated Cross Section	*Overall Diameter Of Cable*	*Current Carrying Capacity*		*Operating Capacity*	*Conductor DC Resistance at (20 °C)*	*Net Weight*	*Delivery Lenght*
mm^2	mm	Havada 30 °C Air 30 °C (A)	Toprakta 20 °C Ground 20 °C (A)	µF / km	Ohm / Km	Kg	Mt
1x240/25	61,2	692	530	0,18	0,0754	4710	250
1x300/25	63,10	795	599	0,19	0,0601	5415	250
1x400/25	66,20	925	683	0,21	0,0470	6300	250

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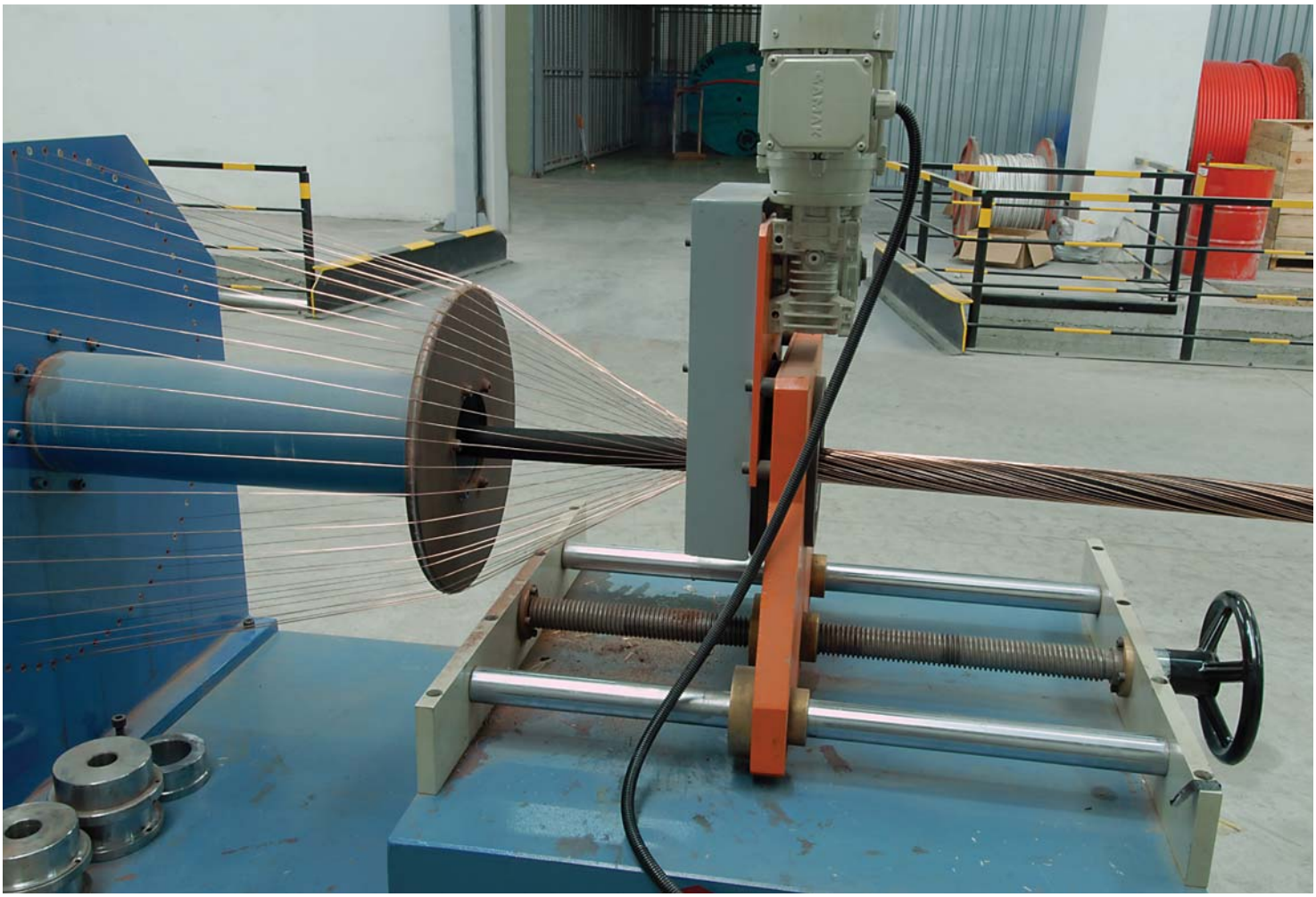

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Bakır İletken
Copper Conductor

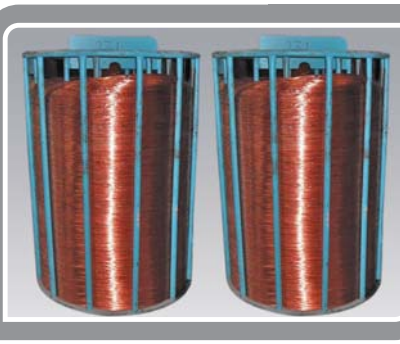
VATAN KABLO

BAKIR FİLMAŞİN
Copper Rod

Sürekli Döküm tesisimizde, katotlar 1185 ℃ deki endüksiyon fırınında eritilerek sıvı hale getirilir. Daha sonra yüksek teknolojili çekim ünitesi ile çekilerek bakır filmaşin elde edilir. Üretimimizin bir bölümü kendi tel çekme tesisimizde kullanılmakta, kalan bölümü ise müşteri istekleri doğrultusunda,paletlenerek satılmaktadır.

At our Continious Casting Plant cathodes are melted at 1185 C in eduction furnance. Then it is drawning in drawn machines and is comed out copper rod. The most part of our production is used in our own drawing line, the rest part sold in bundles by special demand of customers.

Özellikler		Features	
Standart	: ASTM B 49, BS EN 1977	Standard	: ASTM B 49, BS EN 1977
Çap	: 8 mm - 16 mm	Diameter	: 8 mm - 16 mm
Metod	: Outokumpu Upcast Tekniği	Methode	: Outokumpu Upcast Continuous Casting
Ağırlık	: 3500 - 4500 kg	Weight	: 3500 - 4500 kg
Ambalaj	: Kangallar halinde, tahta palet üzerinde çelik şeritle sarılarak sevk edilir.	Packing	: In coils on wooden pallets steel strapped

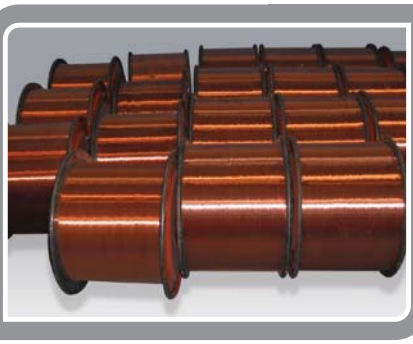


ÇIPLAK BAKIR TEL
Bare Copper Wire

Çubuk dökme tesisimizde üretilen oksijensiz 8 mm çapındaki filmaşin, kaba tel çekme tesisimizde 1,25 veya 4,5 mm çaplarında sert yada tavlı olarak çekilir. Kabatel makine grubunda üretilen tek teller, Tel Çekme tesisimizde kullanıldığı gibi, çelik sepetler içinde veya makaralarda satılmaktadır.

The 8 mm oxygenfree rod produced at our Rod Casting Plant is drawned at hard and annealed drawn machines by 1.25 and 4.5 mm.
The most part of the bare wire manufactured in hard drawn machines is used in our cable production as input for the other drawing lines, also it is sold in steel baskets, packed .

Özellikler		Features	
Standart: T4,	ASTM B1, ASTM B3, DIN 40500 TS EN 13602, TS EN 13601	Standard	: ASTM B1, ASTM B3, DIN 40500 T4, TS EN 13602, TS EN 13601
Çap	: 1,25-4,50 mm	Diameter	: 1,25-4,50 mm
Ağırlık	: 1000-2000 kg	Weight	: 1000-2000 kg
Ambalaj	: Çelik Sepet veya Makara	Packing	: In steel basket or in drums

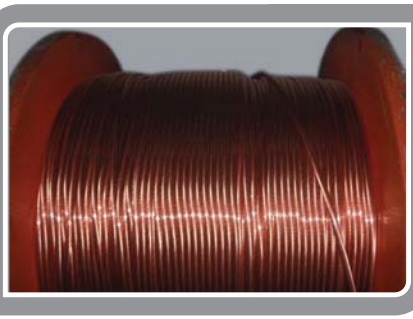


ÇOK TELLİ ÇIPLAK BAKIR TEL
Multi Wire Copper

Çok telli makinalarda 0,19-0,60 mm arasındaki 16 tel aynı anda çekilebilmektedir. 630 luk makaralarda satılır.

Multi wire drawing machines can drawn up to 16 wires between 0,19-0,60 mm at the same time. it is sold in Din 630 drums.

Özellikler		Features	
Standart:	ASTM B3, DIN 40500	Standard :	ASTM B3, DIN 40500
Çap :	0,19-0,60 mm	Diameter :	0,19-0,60 mm
Ağırlık :	max.500 kg	Weight :	max.500 kg
Ambalaj :	Makara	Packing :	In drums



BÜKÜMLÜ ÇIPLAK BAKIR TEL
Bunched Wires

Kaba ve incetel makine grubunda üretilen teller çaplarına ve müşteri isteklerine bağlı olarak , büküm yönleri ve hatve aralıklarına göre 7-1235 tel adedine kadar bükülerek makaralara sarılır.

The classification of bunched wires is based on geometric arrangement, lay length and direction which are specified according to customer demand and wire sizes, packed in drums, from 7 to 1235 pieces bunched wires.

Özellikler		Features	
Standart:	ASTM B8, ASTM B172, ASTM B173	Standard :	ASTM B8, ASTM B172, ASTM B173
Çap :	0,19-0,60 mm	Diameter :	0,19-0,60 mm
Ağırlık :	500 kg - 1000 kg	Weight :	500 kg - 1000 kg
Ambalaj :	Makara	Packing :	In drums

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Teknik Bilgiler
Technical Information

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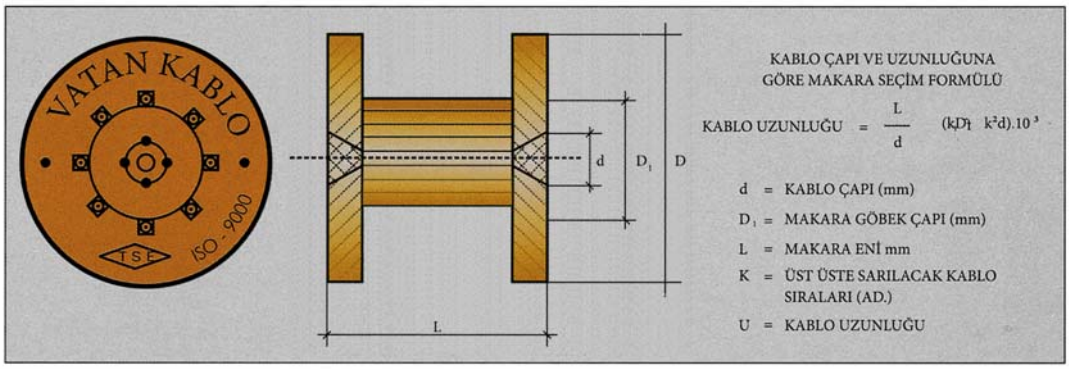


KABLO ÇAPI VE UZUNLUĞUNA GÖRE MAKARA SEÇİM FORMÜLÜ

$$\text{KABLO UZUNLUĞU} = \frac{L}{d} (kD_1 \; k^2 d).10^3$$

d = KABLO ÇAPI (mm)

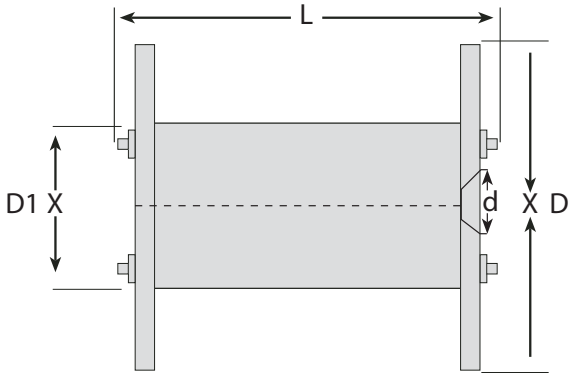
D_1 = MAKARA GÖBEK ÇAPI (mm)

L = MAKARA ENİ mm

K = ÜST ÜSTE SARILACAK KABLO SIRALARI (AD.)

U = KABLO UZUNLUĞU

KABLO ÇAPI CABLE DIMENSIONS	MAKARA TİPİNE GÖRE SARILABİLECEK UZUNLUKLAR (METRE) LENGHTS IN M. FOR DRUMS WITH IDENT NUMBER OR DURM TYPE											
mm	070 cm	080 cm	090 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	220 cm	250 cm	260 cm
6	2024	2755										
7	1481	2340										
8	1064	1463	2731									
9	892	1152	2202	2866								
10	677	980	1768	2349								
11	564	761	1404	1912								
12	468	643	1206	1540								
13	385	542	1032	1339	2727							
14	364	454	881	1159	2265	2967						
15	297	430	749	1000	1991	2479						
16	239	358	632	860	1756	2205						
17	228	294	603	736	1545	1959						
18	218	281	505	705	1355	1737						
19	172	228	485	599	1184	1535	2722					
20	165	219	402	576	1139	1352	2435	2831				
21	159	211	387	485	991	1304	2172	2527				
22	122	167	315	468	856	1145	1931	2248				
23	117	161	304	389	827	999	1869	2172	2953			
24	113	156	294	377	709	967	1657	1927	2608			
25	110	151	285	365	688	839	1608	1867	2522			
26	80	116	226	299	668	814	1419	1650	2218			
27	78	113	221	290	567	700	1244	1450	2150	2861		
28	76	109	215	282	551	681	1211	1409	1879	2777		
29	73	106	209	226	462	663	1180	1371	1826	2450		2976
30	71	103	162	220	450	564	1028	1197	1583	2383		2893
31		76	157	214	438	550	1003	1166	1540	2089		2558
32		74	153	209	428	537	866	1009	1500	2035	2978	2491
33		72	150	204	352	451	846	985	1289	1984	2908	2428
34			146	158	344	441	828	962	1257	1726	2605	2134
35			108	154	336	431	707	824	1227	1685	2547	2083
36			105	151	329	422	692	806	1041	1646	2271	2035
37			103	148	265	348	678	788	1017	1418	2223	1774
38				144	259	341	664	772	994	1386	1969	1735
39				107	254	334	560	653	972	1356	1930	1697
40				105	249	327	549	640	812	1328	1892	1486
41				102	244	264	539	627	795	1130	1664	1435
42				100	190	259	529	615	779	1107	1633	1406
43					187	254	437	511	763	1085	1603	1199
44					183	249	430	502	749	1064	1574	1175
45					180	245	422	492	611	890	1373	1153
46					177	240	415	484	600	874	1349	1134
47					174	187	408	475	589	858	1326	1110
48					129	184	330	386	578	842	1144	931
49					127	181	325	380	568	828	1125	914
50					125	178	319	373	558	678	1107	898
51					123	175	314	367	442	666	1089	883
52					121	172	310	361	435	655	1072	869
53						170	305	356	428	644	912	713
54						126	235	280	421	634	898	701
55						124	232	276	414	624	885	690
56						122	230	271	408	614	872	679
57						121	228	267	401	488	860	668
58						119	225	263	304	480	719	658
59						117	222	260	300	473	709	649
60							219	256	295	466	699	639
61							216	252	291	460	689	609
62							161	190	287	453	680	501



STANDART MAKARA ÖLÇÜLERİ / STANDARD REEL SIZE

MAKARA TIPI DRUM TYPE	ÖLÇÜLER / DIMENSIONS				TAŞIMA KAPASİTESİ LOAD CAPACITY	AĞIRLIKLAR / DRUM WEIGHT (KG)					HACİM SPACE REQUIREMENT
	D (mm)	D1 (mm)	L (mm)	D (mm)	(kg)	BOŞ (a)	KAPALI %50 (b)	TOPLAM %50 (a+b)	KAPALI %100 (c)	TOPLAM %100 (a+c)	m^3
050	500	260	370	050	200	18	4	22	8	26	0,09
060	600	300	370	050	350	20	6	26	12	32	0,13
070	700	350	470	80	500	23	7	30	14	37	0,23
080	800	400	470	80	650	36	8	44	16	52	0,30
090	900	450	650	80	800	50	11	61	22	72	0,53
100	1000	500	650	80	1000	60	15	75	30	90	0,65
120	1200	600	820	100	1400	90	17	107	34	124	1,18
140	1400	700	820	100	1800	115	20	135	40	155	1,61
160	1600	800	1080	110	2200	210	25	235	50	260	2,76
180	1800	1000	1080	110	2800	270	30	300	60	330	3,50
200	2000	1200	1080	110	3500	350	35	385	70	420	4,32
220	2200	1400	1320	125	4000	420	40	460	80	500	6,39
240	2400	1500	1320	125	5000	480	48	528	96	576	7,60
260	2600	1600	1320	125	6000	650	55	705	110	760	8,92
280	2800	1800	1820	125	7500	850	80	930	160	1010	14,26

KABLOLARIN DÖŞENMESİ ESNASINDA MÜSADE EDİLEN MİNİMUM BÜKÜLME YARI ÇAPLARI
MIN. CONTERTION STRUCTURAL MODULES PERMITTED DURING THE INSTALLATION OF CABLES

	(0,6/1 kV) KADAR UNTIL (0,6/1 kV)	**(0,6/1 kV)' DAN BÜYÜKSE** BIGGER THAN (0,6/1 kV)
ÇOK DAMARLI KABLOLAR MULTI STREAKED CABLES	12xD	15xD
TÜM TEK DAMARLI KABLOLAR ALL SINGLE STREAKED CABLES	12xD	15xD

- **DÖŞEME ESNASINDA MÜSAADE EDİLEN (MİN). ÇEVRE SICAKLIĞI (+3 ˚C)'DIR.**
  THE MIN. ENVIRONMENTAL TEMPERATURE PERMITTED DURING THE INSTALLATION IS (+3 ˚C)
- **DAHA DÜŞÜK SICAKLIKLARDA KABLOYU ÖN ISITMAYA TABİ TUTMALIDIR.**
  THE CABLES SHOULD BE PRE -HEATED UNDER TEMPERATURES LOWER THAN THE STATED

VATAN KABLO

TEK VEYA ÇOK DAMARLI KABLOLAR İÇİN SOM İLETKENLER
CONDUCTOR FOR SINGLE OR MULTI CORE CABLES

1	2	3	4
NOMİNAL KESİT NOMINAL CROSS SECTION	20 °C 'DEKİ MAKSİMUM D.C. DİRENCİ (R) MAX. D.C. RESISTANCE AT 20 °C (R)		
	DAİRESEL BAKIR İLETKENLİ CIRCULAR COPPER CONDUCTOR		DAİRESEL VEYA BİÇİMLENDİRİLMİŞ METAL KAPLAMALI VEYA KAPLAMASIZ GÖMLEKLİ ALÜMİNYUM İLETKENLER ALUMINIUM CONDUCTORS WITH CIRCULAR OR ANY OTHER TYPE COVERING
	METAL KAPLAMASIZ WITHOUT METAL COVERING	METAL KAPLAMALI WITH METAL COVERING	
(mm^2)	(Ω / Km)	(Ω / Km)	(Ω / Km)
0,50	36,000	36,70	--------
0,75	34,500	24,80	--------
1,00	18,100	18,20	--------
1,50	12,100	12,20	18,100
2,50	7,410	7,65	12,100
4,00	4,610	4,70	7,410
6,00	3,080	3,11	4,610
10,00	1,830	1,84	3,080
16,00	1,150	1,16	1,910
25,00	0,727	--------	1,200
35,00	0,524	--------	0,868
50,00	0,387	--------	0,641
70,00	0,268	--------	0,443
95,00	0,193	--------	0,320
120,00	0,153	--------	0,253
150,00	0,124	--------	0,206
185,00	--------	--------	0,164
240,00	--------	--------	0,125
300,00	--------	--------	0,100

DİRENÇ FORMÜLÜ
RESISTANCE FORMULA

$$R = \frac{1}{x.q} \quad (\Omega / m)$$

x = İLETKENLİK (CONDUCTIVITY) $\frac{m}{\Omega mm^2}$

q = KESİT (CROSS SECTION) mm^2

MAX. DİRENCİ SAĞLAYAN MİN. ÇAP HESABI
MIN. DIAMETER FOR MAX. RESISTANCE DIAMETER CALCULATION

$$d = \sqrt[2]{\frac{1}{x.R.\pi}}$$

d = ÇAP(DIAMETER)(mm)
x = 58 m / Ωmm²
r = Ω / m
π = 3,14

İLETKENLİK (BAKIR) CONDUCTIVITY (CUPPER)	TAVLI TREATED	58 $\frac{m}{\Omega mm^2}$
	YARI TAVLI HALT TREATED	57 $\frac{m}{\Omega mm^2}$
	SERT BRUTEL	56 $\frac{m}{\Omega mm^2}$
İLETKENLİK (ALÜMİNYUM)	TAVLI TREATED	38 $\frac{m}{\Omega mm^2}$
	SERT BRUTEL	36 $\frac{m}{\Omega mm^2}$

SOM ALÜMİNYUM İLETKEN KESİTLERİ
ALUMINIUM CONDUCTOR CROSS-SECTIONS

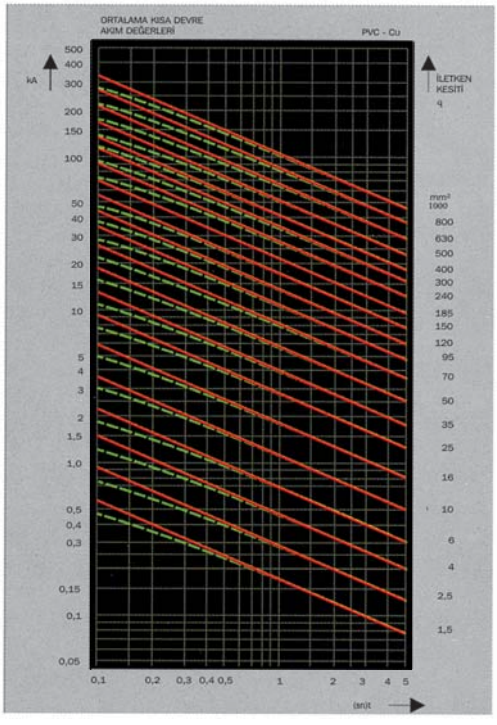
Tek damarlı kabloların hepsinde dairesel olmalı
(Circular shape for single - core cables)

25 mm^2 ve 25 mm^2'den büyük olan çok damarlı kablolarda dairesel veya biçimlendirilmiş olabilir.
(It can have either circular or any other shape for multi-core cables having cross section larger than 25 mm^2)

TEK VEYA ÇOK DAMARLI KABLOLARDA KULLANILAN BÜKÜLEBİLİR BAKIR İLETKENLER B GRUBU TELLERLE YAPILAN
FLEXIBLE COPPIER CONDUCTORS USED IN SINGLE OR MULTI CORE CABLES

ANMA KESİTİ	İLETKENİ OLUŞTURAN TELLERİN EN BÜYÜK ÇAPI	EN BÜYÜK D.C. AKIM DİRENCİ (20°C)	
		METAL KAPLAMASIZ TEL	METAL KAPLAMALI TEL
(mm^2)	(mm)	(Ω / Km)	(Ω / Km)
0,50	0,21	39,000 0	40,100 0
0,75	0,21	26,000 0	26,700 0
1,00	0,21	19,500 0	20,000 0
1,50	0,26	13,300 0	13,700 0
2,50	0,26	7,980 0	8,210 0
4,00	0,31	4,950 0	5,090 0
6,00	0,31	3,300 0	3,390 0
10,00	0,41	1,910 0	1,950 0
16,00	0,41	1,210 0	1,240 0
25,00	0,41	0,780 0	0,795 0
35,00	0,41	0,554 0	0,565 0
50,00	0,41	0,386 0	0,393 0
70,00	0,51	0,272 0	0,277 0
95,00	0,51	0,206 0	0,210 0
120,00	0,51	0,161 0	0,164 0
150,00	0,51	0,129 0	0,132 0
185,00	0,51	0,106 0	0,108 0
240,00	0,51	0,080 1	0,081 7
300,00	0,51	0,064 1	0,065 4
400,00	0,51	0,048 6	0,049 5
500,00	0,61	0,038 4	0,039 1

PVC İZOLELİ BAKIR İLETKENLERİNTERMİK KISADEVRE AKIMINA DAYANIMI



VATAN KABLO

KABLOLARIN AKIM YÜKLENEBİLME ÖZELLİKLERİ
THE CURRENT APLICABILITY OF CABLES

KABLO CİNSİ / CABLES TYPE	H05 V-U/K, H07 V-U/K KABLOLARI, H05 VV-F TS 9759			Y KABLOLARI / Y CABLES							
GERİLİM / VOLTAGE	380 - 1000			0,6 / 1 KV		3,5 / 6 KV		5,8 / 10 KV		8,7 / 15 KV	
	1	2-5	1	3 ve 4		3		3		3	
DÖŞEME ŞEKLİ / TYPE OF INSTALLANT — KESİT / CROSS SECTION	BORU İÇİNDE BİR YADA DAHA FAZLA KABLO / SINGLE OR SEV. CABLES IN A DUCT	HAVADA / IN AIR	HAVADA ASKARİ KABLO ÇAPI ARALIĞI İLE DÖŞENMİŞ / OPEN AIR INSTALL. WITH A MINIMUM GAP	TOPRAKTA / IN SOIL	HAVADA / IN AIR	TOPRAKTA / IN SOIL	HAVADA / IN AIR	TOPRAKTA / IN SOIL	HAVADA / IN AIR	TOPRAKTA / IN SOIL	HAVADA / IN AIR
(mm^2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
0,75	--------	13	16	--------	--------	--------	--------	--------	--------	--------	--------
1,00	12	16	20	--------	--------	--------	--------	--------	--------	--------	--------
1,50	16	20	25	27	17,5	--------	--------	--------	--------	--------	--------
2,50	21	27	34	36	24	--------	--------	--------	--------	--------	--------
4,00	27	36	45	46	32	--------	--------	--------	--------	--------	--------
6,00	35	47	57	58	41	--------	--------	--------	--------	--------	--------
10,00	48	65	78	77	57	--------	--------	--------	--------	--------	--------
16,00	65	87	104	100	76	--------	--------	--------	--------	--------	--------
25,00	88	115	137	130	101	120	105	125	115	105	97
35,00	110	143	168	155	125	150	130	150	135	130	117
50,00	140	178	210	185	151	175	155	175	165	155	146
70,00	175	220	260	230	192	215	195	215	205	190	180
95,00	210	265	310	275	232	260	240	255	250	225	220
120,00	250	310	365	315	269	295	275	290	285	260	250
150,00	--------	365	415	355	309	335	315	325	320	300	299
185,00	--------	406	475	400	353	375	360	365	365	340	345
240,00	--------	480	560	465	415	435	430	425	430	400	403

TEK VEYA ÇOK DAMARLI KABLOLARDA KULLANILAN ÇOK TELLİ (TEL DEMETLİ) İLETKENLER
MULTI WIRE CONDUCTORS USED IN SINGLE OR MULTI CORE CABLES

1	2	3	4	5	6	7	8	9	10
	İLETKENİ OLUŞTURAN EN AZ TEL SAYISI / THE MINIMUM NUMBER OF WIRES IN THE CONDUCTORS						20° C'DEKİ EN BÜYÜK DOĞRU AKIM DİRENCİ / MAX. D.C. RESISTANCE AT 20° C		
NOMİNAL KESİT ALANI / NOMINAL CROSS SECTION	SIKIŞTIRILMAMIŞ DAİRESEL İLETKEN / UNSQUEZED CIRCULAR CONDUCTOR		SIKIŞTIRILMIŞ DAİRESEL İLETKEN / SQUEZED CIRCULAR CONDUCTOR		BİÇİMLENDİRİLMİŞ İLETKEN / SHAPED CONDUCTOR		BAKIR İLETKEN / COPPER CONDUCTOR		METAL KAPLAMASIZ, KAPLAMALI YADA GÖMLEKLİ ALÜMİNYUM İLETKENLER / WITH AND WITHOUT METAL COATED OR COVERED ALUMINIUM WIRES
							METAL KAPLAMASIZ TEL / WITHOUT METAL WIRE	METAL KAPLAMALI TEL / METAL COATED WIRE	
(mm^2)	CU	AL	CU	AL	CU	AL	(Ω / Km)	(Ω / Km)	(Ω / Km)
0,50	7	--------	--------	--------	--------	--------	36,0000	36,7000	--------
0,75	7	--------	--------	--------	--------	--------	24,5000	24,8000	--------
1,00	7	--------	--------	--------	--------	--------	18,1000	18,2000	--------
1,50	7	--------	6	--------	--------	--------	12,1000	12,2000	--------
2,50	7	--------	6	--------	--------	--------	7,4100	7,5600	--------
4,00	7	7[2]	6	--------	--------	--------	4,6100	4,7000	7,4100
6,00	7	7[2]	6	--------	--------	--------	3,0800	3,1100	4,6100
10,00	7	7	6	--------	--------	--------	1,8300	1,8400	3,8000
16,00	7	7	6	6	--------	--------	1,1500	1,1000	1,9100
25,00	7	7	6	6	6	6	0,7270	0,3740	1,2000
35,00	7	7	6	6	6	6	0,5240	0,5290	0,8680
50,00	19	19	6	6	6	6	0,3870	0,3910	0,6410
70,00	19	19	12	12	12	12	0,2680	0,2700	0,4430
95,00	19	19	15	15	15	15	0,1930	0,1950	0,3200
120,00	37	37	18	15	18	15	0,1530	0,1540	0,2530
150,00	37	37	18	15	18	15	0,1240	0,1260	0,2060
185,00	37	37	30	30	30	30	0,0991	0,1000	0,1640
240,00	61	61	34	30	34	30	0,0754	0,0762	0,1250
300,00	61	61	34	30	34	30	0,0601	0,0607	0,1000
400,00	61	61	53	53	53	53	0,0470	0,0475	0,0778
500,00	61	61	53	53	53	53	0,0366	0,0369	0,0605
630,00	91	91	53	53	53	53	0,0283	0,0286	0,0469
800,00	91	91	53	53	--------	--------	0,0221	0,0224	0,0367
1000,00	91	91	53	53	--------	--------	0,0176	0,0177	0,0291
1200,00	1)		1)		--------		0,0151		0,0247
(1400)[3]	1)		1)		--------		0,0129		0,0212
1600	1)		1)		--------		0,0113		0,0186
(1800)[3]	1)		1)		--------		0,0101		0,0165
2000	1)		1)		--------		0,0090		0,0149

1- EN AZ TEL SAYISI BELİRTİLMEMİŞTİR
THE MINIMUM NUMBER OF WIRE IS NOT MENTIONED

2- BU KESİTLER, KABLONUN TİPİ VE UYGULAMA DURUMLARI AÇISINDAN İLETKEN UYGUNLUĞUNUN ÖZELLİKLE ÖNGÖRÜLDÜĞÜ HALLERDE KULLANILABİLİR
THESE CROSS SECTIONS ARE USEDWHENEVER THE CONDUCTORS LENGTH ARE NECESSARY FOR CABLES TYPE AND APPLICATION PLACE

3- PARANTEZ İÇİNDEKİLER KESİTLER, ZORUNLULUK DERECESİ ÖNCEDEN BELİRTİLMEK ŞARTI İLE KULLANILABİLİR
THOSE CROSS SECTION WHICH ARE IN BRACKETS CAN ONLY BE USED FOR THE PREDECLARED REASON OF APPLICATION

VATAN KABLO

PVC İZOLELİ YVV, YVMV, YVZ3V TİPİ KABLOLAR İÇİN İNDİKTİVİTE L VE ENDİKTİF DİRENÇ XL 50 Hz
THE TABLES OF WORKING CAPACITY VALUES OF Y CABLES (AS MF / Km)

NOMİNAL KESİT CROSS SECTION	YVV, YVCV (0,6 / 1 KV)		YVZ3V (0,6 / 1 KV)	
	L	XL	L	XL
mm²	mH / kM	Ω / Km	mH / kM	Ω / Km
4	0,33	0,100	0,37	0,120
6	0,31	0,098	0,35	0,110
10	0,29	0,091	0,33	0,100
16	0,28	0,088	0,31	0,098
25	0,27	0,085	0,30	0,094
35	0,26	0,082	0,29	0,091
50	0,26	0,082	0,29	0,091
70	0,25	0,079	0,28	0,088
95	0,25	0,079	0,28	0,088
120	0,25	0,079	0,28	0,088
150	0,25	0,079	0,28	0,088
185	0,25	0,079	0,28	0,088
240	0,24	0,075	0,27	0,085

Y - KABLOLARININ ÇALIŞMA KAPASİTE DEĞERLERİ ÇİZELGESİ (µF OLARAK)
THE TABLES OF WORKING CAPACITY VALUES OF Y CABLES (AS MF / Km)

1	2	3	4	5	6
KESİT CROSS SECTION	ALÇAK GERİLİM KABLOLARI 6 KV LOW VOLTAGE CABLES 6 KV				10 KV
mm²	YV	YVCV	YVZ3V	YVZ3V VEYA YVCV	YVSHŞV
4	--------	0,23 (µF)	0,25 (µF)	--------	--------
6	V --------	0,26	0,28	--------	--------
10	0,28 (µF)	0,32	0,34	0,22 (µF)	0,23 (µF)
16	0,32	0,37	0,38	0,24	0,27
25	0,36	0,41	0,42	0,27	0,32
35	0,38	0,43	0,44	0,31	0,36
50	0,43	0,48	0,49	0,34	0,41
70	0,46	0,51	0,53	0,37	0,48
95	0,52	0,56	0,57	0,40	0,53
120	0,54	0,58	0,59	0,41	0,60
150	0,58	0,62	0,64	0,46	0,64
185	0,61	0,65	0,67	0,49	0,70
240	0,62	0,67	0,70	0,52	0,82

0,6 / 1 KV YALITKANLI KABLOLARIN STANDART GÜÇLERİ TAŞIYABİLECEKLERİ MAKSIMUM UZAKLIK (m)
0,6 / 1 KV YALITKANLI KABLOLARIN STANDART GÜÇLERİ TAŞIYABİLECEKLERİ MAKSİMUM UZAKLIK (m)

mm² / GÜÇ KW	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
2,5	103	109	271	404	675	1063										
3	87	142	227	339	567	892	1391									
3,5	73	120	192	287	480	756	1180									
4	65	106	169	253	423	666	1038									
4,5	58	94	151	226	378	595	927	1266								
5	51	84	135	202	337	531	828	1130								
6	43	70	112	168	280	442	689	940	1247							
7	36	60	96	143	240	378	590	805	1067							
8	32	52	84	125	210	330	515	703	932	1301						
9	28	46	74	111	186	293	457	625	828	1155						
10	25	42	67	101	168	265	414	565	750	1045						
12	21	35	56	84	141	223	347	474	630	878	1168					
14	18	30	49	73	123	194	302	413	547	764	1014					
16		26	42	62	105	165	257	351	466	650	863	1053				
18		23	37	56	94	148	231	316	419	585	777	948	1119			
20		21	34	51	85	135	210	287	381	532	706	862	1017			
22			30	45	76	120	188	256	340	475	630	769	907	1072		
25			27	40	67	106	165	226	299	418	555	677	799	944	1156	
30				33	56	89	139	189	251	351	466	569	671	793	971	1124
35					48	75	117	161	213	297	395	482	569	672	823	952
40					42	66	103	141	187	262	348	425	501	592	725	838
45						58	91	124	165	231	306	374	442	522	639	739
50						53	82	113	149	209	277	338	400	472	578	669
55						48	74	102	135	188	250	305	361	726	522	604
60							68	94	124	173	230	281	332	392	481	556
70							58	80	106	148	197	241	284	336	411	476
75							55	75	99	139	185	225	266	314	385	446
80								70	93	130	172	210	248	293	360	416
90								62	82	115	153	187	220	261	319	369
100									74	103	138	168	198	234	287	332
110									68	94	126	153	181	214	262	303
130										80	106	129	153	181	221	256
133										78	104	127	149	177	216	250
150											92	112	132	156	192	222
160											86	105	124	146	179	208
180												93	110	130	160	185
200													99	117	144	166
205													97	114	140	162
230														102	125	145
270															106	123
280																119
290																114
300																111
305																109

380 V GERİLİM DÜŞÜMÜ < % 3

COS Ş = 0,9 OLARAK ALINMIŞTIR.

KESİT VE GERİLİM DÜŞÜMÜ HESAPLARI / CROSS SECTION AND VOLTAGE DECREASE CALCULATION

GÜÇ VE GERİLİM DÜŞÜMÜ FORMÜLLERİ VE KESİT HESAPLARI

A) GÜÇ FORMÜLLERİ

1-Üç fazlı devrelerde

Güç : $P_3 = \sqrt{3}\ U_3$ x Cosφ watt

U_3 =(Volt) faz arası gerilim,

I =(Amp) Faz akımı,

Cosφ = Güç katsayısı,

Cosφ = 1 (aydınlatma tesislerinde)

Cos φ = 0,8 (Güç, motor tesislerinde)

2- Bir fazlı devrede :

Güç :$P_1 = U_1$ x Cosφ (watt)

U_1 =(Volt) Faz-Nötr gerilimi;

$$U_1 = \frac{3\ U_3}{3}$$

I = (Amp) Akım,

Cosφ= Güç katsayısı

B) GERİLİM DÜŞÜMÜ HESAPLARI

1) Bir fazlı devrede gerilim düşümü ve kesit tayini

a) Güç bilindiğine göre FORMÜL :

(Gerilim Düşümü) % olarak:

$$\%\Delta U = \frac{200 P_1 L}{Xq\ U_1^2} = K.P_1.L \text{ Volt}$$

C) TARİFLER

P_1 = Çekilen güç (watt) q = Kesit (mm²)
L = Mesafe uzunluk (mt) K = İletkenlik sabitesi kesite göre değişir.
X = Bakır telin iletkenliği* U_1 = Faz-Nötr gerilimi (Volt) = 220V

*** BAKIR İLETKENLİK TABLOSU**

SERT	YARI SERT	TAVLI
$56\ (\frac{mt}{\Omega mm^2})$	$57\ (\frac{mt}{\Omega mm^2})$	$58\ (\frac{mt}{\Omega mm^2})$

KESİTE GÖRE (K) iletkenlik sabitesinin değerleri:

1,5 mm² $K_{1,5}$ = 475.10
2,5 mm² $K_{2,5}$ = 285.10
4.0 mm² K_4 = 178.10
6.0 mm² K_6 = 119.10
10.0 mm² K_{10} = 71.10
16.0 mm² K_{16} =44,5.10

$$x = 58\ \frac{mt}{\Omega mm^2}$$

İç tesisat talimatnamesinde belirtilen AYDINLATMA tesisleri için gerilim düşümü :% ΔU=%15'u, Motor tesislerinde ise : %ΔU =%3' ü geçmemek şartıyla (K) sabitesine göre kesit seçimi yapılabilir.

POWER-VOLTAGE FORMULATIONS AND CROSS-SECTION CALCULATION

A) POWER FORMULATIONS

1-For Theree phase circuits

Power : $P_3 = \sqrt{3}\ U_3$ x Cosφ watt

U_3 =(VOLT) voltage between the phases,

I = (Amp) Phase Current,

Cosφ = Power coefficient,

Cosφ = 1 (For İlluminating network)

Cosφ = 0,8 (Power and motor network)

2- Single phase networks :

Power :$P_1 = 3U_1$ x Cosφ (watt)

U_1 =(Volt) Phase-neutral voltage,

$$U_1 = \frac{3\ U_3}{3}$$

I = (Amp)Current,

Cosφ = Power coefficient

B) VOLTAGE DECREASE CALCULATIONS

1) Voltage decrease and cross-section calculation for single phase circuits

a) The equation when power is known :

(Voltage decrease) as % :

$$\%\Delta U = \frac{200 P_1 L}{Xq\ U_1^2} = K.P_1.L \text{ Volt}$$

C) DESCRIPTIONS

P_1 = Active power (watt) q = [Cross-section (mm²)]
L = The distance (m) K = [conductivity coefficient (varies with cross-section)]
X = [The inductivity of copper wire]: U_1 = [Phase-Neutral Voltage (Volt)]

STRENGTH	HALF STRENGTH	HEAT TREATED
$56\ (\frac{mt}{\Omega mm^2})$	$57\ (\frac{mt}{\Omega mm^2})$	$58\ (\frac{mt}{\Omega mm^2})$

The values of Conductivity coefficient (K) for Cross-Section

1,5 mm² $K_{1,5}$ = 475.10
2,5 mm² $K_{2,5}$ = 285.10
4.0 mm² K_4 = 178.10
6.0 mm² K_6 = 119.10
10.0 mm² K_{10} = 71.10
16.0 mm² K_{16} =44,5.10

$$x = 58\ \frac{mt}{\Omega mm^2}$$

The voltage loss for enlightening network (as mentioned in the Interal network Instruction) = %ΔU≤%1,5 For motor system =%Δ≤%3. (K) Konstant should be selected in such a way that.

ÜÇ FAZLI DEVRELERDE GERİLİM DÜŞÜMÜ VE KESİT TAYİNİ / THE VOLTAGE LOSS AND THE CROSS SECTION CALCULATION FOR THREE PHASE CIRCUIT

a) Güç bilidiğine göre FORMÜL:

(%... gerilim düşümü) $\%\Delta U = \frac{200 P_3 L}{Xq\ U_3^2} = K.P_3.L$ Volt

U_3=Faz arası gerilim(Volt) = 380 V

a) When the power is known the formula is:

(%... voltage loss) $\%\Delta U = \frac{200 P_3 L}{Xq\ U_3^2} = K.P_3.L$ Volt

U_3=Voltage between the phases = 380 V

KESİTE GÖRE (K) İLETKENLİK SABİTESİNİN DEĞERLERİ / THE VALUE OF (K) CONDUCTIVITY FOR CROSS SECTION

1.5 mm² - K = 80.10^{-7}	25 mm² - K = $4,80.10^{-7}$	150 mm² = $0,80.10^{-7}$
2.5 mm² - K = 48.10^{-7}	35 mm² - K = $3,40.10^{-7}$	185 mm² = $0,62.10^{-7}$
4.0 mm² - K = 30.10^{-7}	50 mm² - K = $2,40.10^{-7}$	240 mm² = $0,50.10^{-7}$
6.0 mm² - K = 20.10^{-7}	70 mm² - K = $1,70.10^{-7}$	300 mm² = $0,40.10^{-7}$
10.0 mm² - K = 12.10^{-7}	95 mm² - K = $1,26.10^{-7}$	
16.0 mm² - K = $7,5.10^{-7}$	120 mm² - K = $1,00.10^{-7}$	$X=58\ (\frac{mm}{\Omega mm^2})$

Aydınlatma tesislerinde :%ΔU ≤ %1,5 'u
Güç(motor) tesislerinde : %ΔU = %3'ü geçmemek şartıyla yukarıda hesaplanan (K) sabitesine göre kesit tayini yapılabilir.

C) KESİT HESAPLARI:

1- Bir fazlı devrelerde kesit tayini;
a) Çekilen akım bilindiğine göre KESİT: $q=\frac{2.I.L}{x.e.\cos\varphi}=\underline{K.I.L}.mm^2$

q= İletken kesiti (mm²)
I = Hat akımı (Amp)
L = Mesafe uzunluk (mt)

$x=57\ (\frac{mt}{\Omega mm^2})$ iletkenlik sabitesi.

e=Hattaki toplam gerilim düşümü (Volt)
Cosφ=1 güç katsayısı, aydınlatma tesislerinde,
Cosφ=0,8 güç katsayısı, motor tesislerinde,
e_a= Aydınlatmada bir fazlı tesisatta top. Max. Gerilim düşümü

$e_a=\frac{1,5}{100}x220 = 3,3$ Volt

e =Motor tesislerinde bir fazlı sistemde top. Max. Gerilim düşümü

$e_m=\frac{3}{100}\ x220 = 6,6$

$K_a=\frac{2}{57.3,3.1}=106,3.10^{-4}$ $\quad q_a= 66,5.10^{-4}.I.L.mm^2$

$K_m=\frac{2}{57.6,6.0,8}=106,3.10^{-4}$ $\quad q_m= 66,5.10^{-4}.I.L.mm^2$

At illuminating network :ΔU%≤%1,5

At motor network ΔU≤3% Cross-Section can be calculated for above mentioned (K) values

C) CROSS-SECTİON CALCULATIONS

1- Cross-section calculation for single phase system
a) Cross-section as current is known
q= Conductor's cross-section (mm²)
I = Current (Amp)
L = Length (mt)

$x=57\ (\frac{mt}{\Omega mm^2})$ Conductivity constant.

e= Total voltage decrease in the network (Volt)
Cosφ=1 power coefficient in illuminating network
Cosφ=0,8 power coefficient in motor network
e_a= Total voltage decrease in single phase illuminating network

$e_A=(\frac{1,5}{100})\ x\ 220 = 3,3$ Volt

e_m= Total voltage decrease in single phase motor network

$e_M=(\frac{3}{100})\ x\ 220 = 6,6$ Volt

$K_a=\frac{2}{57.3,3.1}=106,3.10^{-4}$ $\quad q_a= 66,5.10^{-4}.I.L.mm^2$

$K_m=\frac{2}{57.6,6.0,8}=106,3.10^{-4}$ $\quad q_m= 66,5.10^{-4}.I.L.mm^2$

ÜÇ FAZLI DEVRELERDE KESİT AYİNİ / THE CROSS-SECTION CALCULATIONS FOR THREE PHASE CIRCUITS

a) Çekilen akım bildiğine göre KESİT;

$q=\frac{\sqrt{3}.I.L}{X.e.Cos\varphi}$ = K.I.L mm²

e = Hattaki toplam gerilim düşümü (volt)

Üçgen bağlı motor tesisleri : $e=\frac{3}{100}\ 380 = 11,4$ Volt

Yıldız bağlı motor tesisleri : $e=\frac{3}{100}\ 220 = 6.6$ Volt

(K) Sabitleri ise :

$K\Delta=\frac{\sqrt{3}}{x.e.\cos\varphi}=\frac{\sqrt{3}}{57.11,4.0,8}=33,3.10^{-4}$

$K\lambda=\frac{3}{57.6,6.0,8}=37,5.10^{-4}$

Kesitler

Üçgen sistemde : $q\Delta = 33,3.10^{-4}.I.L.(mm^2)$ (mm²) Gore hesaplanabilir

Yıldız sistemde : $q\lambda = 37,5.10^{-4}.I.L.(mm^2)$ (mm²) Gore hesaplanabilir

a) The cross-section when current is known

$q=\frac{\sqrt{3}.I.L}{X.e.Cos\varphi}$ = K.I.L mm²

e = Total voltage decrease in the network

Triangle type motor circuits : $e=\frac{3}{100}\ 380 = 11,4$ Volt

Star type engine circuits : $e=\frac{3}{100}\ 220 = 6.6$ Volt

(K) Constans :

$K\Delta=\frac{\sqrt{3}}{x.e.\cos\varphi}=\frac{\sqrt{3}}{57.11,4.0,8}=33,3.10^{-4}$

$K\lambda=\frac{3}{57.6,6.0,8}=37,5.10^{-4}$

Cross-Section

Triangle system: $q\Delta = 33,3.10^{-4}.I.L.(mm^2)$

Star system : $q\lambda = 37,5.10^{-4}.I.L.(mm^2)$

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