



شرکت کابل سازان یزد

تولید کننده انواع سیم و کابل برق

برخفاصرت...

CABL SAZAN
YAZD Co.

Manufacturer of electrical wires and cables

On The Power Line...



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برای دانلود کاتالوگ اسکن فرمائید.

یزد / شهرک صنعتی یزد / بلوار کاج

۲۴ متری چهارم بهارستان ۲۴

24th Baharestan Alley / 4th 24Meter Ave

Kaj Blvd / Yazd Industrial Zone / YAZD / IRAN

About Us:

CABL SAZAN YAZD Co. (private joint stock) was registered in July, 2010 under registration No. 12718 and began its activities in the field of manufacturing various types of wires and cables in Yazd Industrial Zone under Permit No. 164/90 issued by Yazd Organization of Mines and Industries in September, the same year.

Based on the company's long-term plan to employ cutting-edge technologies and up-to-date knowledge, as well as the ability to export and compete with top competitors, the procurement of machinery and equipment from the most valid and high-quality manufacturers, the use of the latest technology, and employing expert and efficient workforce to produce quality products have been considered as the most important priorities of the company. In this regard, the company has honorably managed to get the following certificates from national and international organizations:

1. The Mandatory Standard Implementation License

(ISIRI 607-3, ISIRI 607-5, ISIRI 3569-1);

2. Certificate of Integrated Management System (IMS)

(ISO9001:2015, ISO14001:2015, ISO45001:2018);

3. Certificate of European Standard (CE)

4. Green Industry Certificate

5. Eco-Friendly Certificate

6. Approval Certificate of IRAN Power Organization

The laboratory unit of the company has always been one of the most reliable partner laboratories of the Iranian Standard Institute, with the establishment of the ISO/IEC 17025 international standard and the laboratory qualification certificate from the Standards Organization.

درباره ما :

شرکت کابل سازان یزد (سهامی خاص) در تیرماه سال ۱۳۹۰ تحت شماره ۱۲۷۱۸ به ثبت رسید و در شهریور ماه همان سال به شماره ۹۰/۱۶۴ از طرف اداره صنایع و معادن استان یزد در شهرک صنعتی یزد بهره برداری گردید و فعالیت خود را در زمینه ی تولید انواع سیم و کابل برق آغاز نمود.

بر اساس برنامه بلند مدت شرکت مبنی بر همگام بودن با رشد تکنولوژی و به کارگیری دانش به روز و نیز توان صادراتی و رقابتی با رقبای قدرتمند، تهیه ی ماشین آلات و تجهیزات از معتبرترین و با کیفیت ترین شرکتهای سازنده و استفاده از تکنولوژی روز دنیا و برخورداری از نیروهای متخصص و کارآمد برای تولید محصولات با کیفیت در دستور کار قرار گرفته است. فلذا در همین راستا شرکت مفتخر به دریافت گواهی نامه های زیر معتبرترین نهاد های ملی و بین المللی می باشد:

۱- پروانه کاربرد استاندارد اجباری (ISIRI 3569-1, ISIRI 607-5, ISIRI 607-3)

۲- گواهینامه سیستم مدیریت یکپارچه IMS

(ISO9001:2015, ISO14001:2015, ISO45001:2018)

۳- گواهینامه استاندارد اروپا (CE)

۴- گواهی نامه صنعت سبز

۵- گواهی نامه ECO-FRIENDLY

۶- گواهینامه تایید توانیر

واحد آزمایشگاه شرکت با استقرار استاندارد بین المللی ISO/IEC 17025 و دریافت گواهینامه تأیید صلاحیت آزمایشگاه از سازمان استاندارد، همواره یکی از معتبر ترین آزمایشگاه های همکار موسسه استاندارد ایران بوده است.

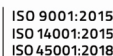


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Lift cables and cables for flexible connections

Standard: IEC 60227-6, IEC 60228

Rated Voltage: 450/750V, 300/500V

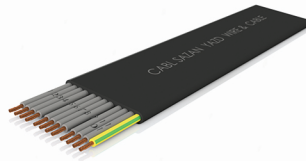
Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/D

Sheath: PVC / ST5

Max conductor temperature: 70°C

Application: For lift and movable fitting



کابل های بالابر و اتصالات متحرک تخت

استاندارد: ISIRI 3084, ISIRI (607)71f

هادی: مس آنیل شده گروه ۵

عایق: پی وی سی نوع D

روکش: پی وی سی نوع ST5

ولتاژ نامی: 450/750V, 300/500V

ماکزیمم دمای کاربری هادی: 70°C

کاربرد: جهت آسانسورها، بالابرها و اتصالات متحرک

Flexible flat cables

Standards: IEC60228, IEC60502-1

Rated Voltage: 0.6/1 KV

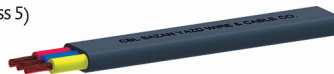
Coductor: Flexible annealed copper (Class 5)

Insulation: PVC

Sheath: PVC

Max conductor temperature: 70°C

Application: For cabling well pumps



کابل های تخت قابل انعطاف

استاندارد: ISIRI 3084, ISIRI 3569-1

هادی: مس آنیل شده گروه ۵

عایق: پی وی سی

روکش: پی وی سی

ولتاژ نامی: 0.6/1 KV

ماکزیمم دمای کاربری هادی: 70°C

کاربرد: جهت کابل کشی پمپ های چاه استفاده می گردد.

Light & Ordinary PVC flexible cables (cords), NYLHY, NYMHY (H03VV-F, H05VV-F, H03VV-K, H05VV-K)

Standard: IEC 60228, IEC 60227-5

Rated Voltage: 300/300V, 300/500V

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/D

Sheath: PVC/ST5

Max conductor temperature: 70°C

Application: In dry and damp rooms for supplying portable appliance.



کابل های قابل انعطاف سبک و معمولی

استاندارد: ISIRI 3084, ISIRI 607-5

هادی: مس آنیل شده گروه ۵

عایق: پی وی سی نوع D

روکش: پی وی سی نوع ST5

ولتاژ نامی: 300/300V, 300/500V

ماکزیمم دمای کاربری هادی: 70°C

کد شناسایی در استاندارد ایران: ISIRI (607)52, ISIRI (607)53

کاربرد: در محلهای خشک و نمناک، زمانی که انعطاف پذیری مورد نظر باشد، مانند تغذیه لوازم برقی متحرک

Multicore flexible cables (NYMHY-J, NYMHY-O)

Standard: IEC 60228, & IEC60502-1

Rated Voltage: 0.6/1 KV

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/A

Sheath: PVC/ST1

Max conductor temperature: 70°C

Application: In dry and humid places for electrical devices, where more flexibility is required.



کابل های افشان چند رشته

استاندارد: ISIRI 3084, ISIRI 3569-1

هادی: مس آنیل شده گروه ۵

عایق: پی وی سی نوع A

روکش: پی وی سی نوع ST1

ولتاژ نامی: 0.6/1 KV

ماکزیمم دمای کاربری هادی: 70°C

کاربرد: در محل های خشک و نمناک جهت تغذیه تاسیسات الکتریکی زمانیکه انعطاف پذیری مورد نظر باشد.

Single core non-sheathed cable with flexible conductor for general purposes, NYAF (H05V-K, H07V-K)

Standard: IEC 60228, IEC 60227-3

Rated Voltage: 300/500V, 450/750V

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/C

Max conductor temperature: 70°C

Application: In dry indoors, in electric panels and devices. Installation under the plaster is not permitted.



سیم ها با هادی قابل انعطاف

استاندارد: ISIRI 3084, ISIRI 607-3

هادی: مس آنیل شده گروه ۵

عایق: پی وی سی نوع C

ولتاژ نامی: 300/500V, 450/750V

ماکزیمم دمای کاربری هادی: 70°C

کد شناسایی در استاندارد ایران: ISIRI (607)02, ISIRI (607)06

کاربرد: در محلهای خشک برای سیم کشی داخل ساختمان و تابلوها وقتی انعطاف پذیری بیشتر مورد نیاز باشد. (استفاده مستقیم در زیر گچ مجاز نمیباشد)

Flat non-sheathed cord (NYZ)

Standard: IEC 60277-5, IEC 60228

Rated Voltage: 300/300V

Coductor: Flexible annealed copper (Class 6)

Insulation: PVC/D

Max conductor temperature: 70°C

Application: For connecting to portable devices where mechanical stresses are low. Application for heating appliances is not permissible.



سیم های بند تخت (نایلونی) NYZ

استاندارد: ISIRI 3084, ISIRI 607-5

هادی: مس آنیل شده گروه ۶

عایق: پی وی سی نوع D

ولتاژ نامی: 300/300V

ماکزیمم دمای کاربری هادی: 70°C

کد شناسایی در استاندارد ایران: ISIRI 607-42

کاربرد: برای ارتباط با وسایل الکتریکی قابل حمل در محل هایی که فشار مکانیکی کمی وجود دارد. استفاده از وسایل گرمایشی مجاز نیست.

Tape armored cables, (PVC insulation, PVC sheath)(NYBY, NAYBY)

Standard: IEC 60502-1

Rated voltage: 0.6/1 KV

Conductor: Annealed copper wire or aluminum

Insulation: PVC

Bedding: PVC

Armour: Galvanized steel tape for multi cores or Aluminum tape for single core.

Sheath: PVC

Max conductor temperature: 70°C

Application: Used in outdoor, in ducts or underground, where mechanical damage is expected.

کابل‌های قدرت با زره نواری و عایق PVC

استاندارد: ISIRI 3569-1

هادی: مس آتیل شده یا آلومینیوم

ولتاژ نامی: 0.6/1 KV

عایق: پی وی سی

بدینگ: پی وی سی

زره: برای کابل‌های تک رشته، نوار آلومینیومی و برای کابل‌های چند رشته، نوار فولادی است.

روکش: پی وی سی

ماکزیمم دمای کاربری هادی: 70°C

کاربرد: کابل کشی در داخل یا خارج کانال جهت تغذیه تاسیسات برقی در مکان‌هایی که نیاز

به حفاظت مکانیکی باشد.

Indoor telephone cable J-Y(st)Y

Standard: TCI, VDE

Conductor: Solid annealed copper wire

Insulation: PVC

Screen: Polyester tape, aluminum foil, drain wire

Sheath: PVC

Application: For telephone laying over and under plaster, laying underground is not permitted.

کابل تلفنی تاسیساتی (شیلد دار)

استاندارد: الزامات شرکت مخابرات ایران و VDE

هادی: مس آتیل شده تک لا

عایق: پی وی سی

شیلد: نوار پلی استر، مفتول قلع اندود، نوار آلومینیومی

روکش: پی وی سی

کاربرد: در تاسیسات تلفنی داخل ساختمانها و مراکز تلفن کاربرد دارد. استفاده در زیرزمین مجاز نیست.

Light inflexible cables, NYM-O, NYM-J (H05VV-R, H05VV-U)

Standard: IEC 60228, IEC 60227-4

Rated Voltage: 300/500V

Conductor: Annealed copper wire (Class 1 & 2)

Insulation: PVC/C

Inner Sheath: PVC

Sheath: PVC/ST4

Max conductor temperature: 70°C

Application: Indoor, outdoor and underground where mechanical damage is not expected.

کابل‌های غیر قابل انعطاف سبک

استاندارد: ISIRI 3084, ISIRI 607-4

هادی: مس آتیل شده گروه ۱ و ۲

عایق: پی وی سی نوع C

روکش میانی: پی وی سی

روکش: پی وی سی ST4

ولتاژ نامی: 300/500V

ماکزیمم دمای کاربری هادی: 70°C

کد شناسایی در استاندارد ایران: ISIRI (607)10

کاربرد: کابل کشی زمینی، در داخل یا خارج کانال جهت تغذیه تاسیسات برقی در صورتیکه

احتمال ضربه مکانیکی وجود نداشته باشد.

Wire Armored power cables (N2XRY, NA2XRY)

Standard: IEC 60502-1

Rated voltage: 0.6/1 KV

Conductor: Annealed copper wire or aluminum

Insulation: XLPE

Bedding: PVC

Armour: Galvanized steel wire for multi cores or Aluminum wire for single core.

Sheath: PVC

Max conductor temperature: 90°C

Application: Used outdoor, in dutes or underground, where mechanical damage is expected.

کابل‌های قدرت با زره مفتولی و عایق XLPE

استاندارد: ISIRI 3589-1

هادی: مس آتیل شده یا آلومینیوم

ولتاژ نامی: 0.6/1 KV

عایق: پلی اتیلن کراسلینک شده

بدینگ: پی وی سی

زره: برای کابل‌های تک رشته مفتول‌های آلومینیومی و برای کابل‌های چند رشته مفتول‌های فولادی است.

روکش: پی وی سی

ماکزیمم دمای کاربری هادی: 90°C

کاربرد: کابل کشی در داخل یا خارج کانال جهت تغذیه تاسیسات برقی در مکان‌هایی که نیاز به

حفاظت مکانیکی باشد.

Single-core non-sheathed cable with solid and stranded conductor, for general purposes, NYA (H05V-U, H07V-U, H07V-R)

Standards: IEC 60228, IEC 60227-3

Rated Voltage: 300/500V, 450/750V

Conductor: Annealed copper conductor (Class 1 & 2)

Insulation: PVC/C

Max conductor temperature: 70°C

Application: Used for general purposes Equipment, switching lighting and building. Installation under the plaster is not permitted.

سیم با هادی تک مفتولی و چند مفتولی

استاندارد: ISIRI 607-3, ISIRI 3084

هادی: مس آتیل شده گروه ۱ و ۲

عایق: پی وی سی نوع C

ولتاژ نامی: 300/500V, 450/750V

ماکزیمم دمای کاربری هادی: 70°C

کد شناسایی در استاندارد ایران: ISIRI (607)05, ISIRI (607)01

کاربرد: در تابلوهای برق، تاسیسات نصب ثابت، ساختمانها و روشنایی و ... استفاده مستقیم

در زیر گچ مجاز نمی باشد.

Flat cords with insulation and sheath, NYIFY-U

Rated Voltage: 300/500V

Conductor: Annealed copper wire (Class 1)

Insulation: PVC

Sheath: PVC

Max conductor temperature: 70°C

Application: Used in buildings and on the wall.

کابل های جریدار

ولتاژ اسمی: 300/500V

هادی: مس آتیل شده گروه ۱

عایق: پی وی سی

روکش: پی وی سی با استقامت کششی کم

ماکزیمم دمای کاربری هادی: 70°C

کاربرد: در ساختمان ها و روی دیوار نصب می شود.

Unscreened inflexible control cables

Standard : IEC 60502, VDE 0271

Rated Voltage : 0.6/1 KV

Conductor : Annealed copper conductors
(Class 2 & 1)

Insulation : PVC

Sheath : PVC

Application : For fixed installation in damp places, indoors, outdoors, under ground where mechanical damage is not expected



کابل کنترل غیر قابل انعطاف

استاندارد : IEC 60502, VDE 0271, ISIRI 3569

ولتاژ اسمی : 0.6/1 KV

هادی : مس آتیل شده (کلاس ۱ یا ۲)

عایق : پی وی سی

روکش : پی وی سی

موارد مصرف : برای نصب ثابت در محیط های مرطوب داخل یا بیرون ساختمان ، زیر زمین هنگامی که احتمال صدمات مکانیکی وجود نداشته باشد.

Individual & overall screened instrument cable (Multi cores, twisted pairs or triads), RE-Y(st)Y, RE-2X(st)Y PIMF/TIMF

Standard : EN50288-7

Rated Voltage : 500 V

Conductor : Annealed copper conductors
(Class 5, 2 & 1)

Insulation : PVC or XLPE

Individual screen : Each pair/triad would be screened by Aluminum laminated to polyester tape plus a drain wire

Overall screen : Aluminum laminated to polyester tape plus a drain wire

Sheath : PVC

Application : Used for connecting instruments and electrical equipment especially in plants where process control is required. Individual & overall screen cables most used for analog signals.



کابل کنترل ابزار دقیق با شیلد انفرادی و کلی (چند رشته ، چند زوجی/سه تایی)

استاندارد : EN50288-7

ولتاژ اسمی : 500V

هادی : مس آتیل شده (کلاس ۲، ۵ یا ۱)

عایق : پی وی سی یا پلی اتیلن کراسلینک شده

اسکرین انفرادی : نوار آلومینیوم پلی استرو سیم درین بر روی هریک از زوج ها/سه تایی ها

اسکرین کلی : نوار آلومینیوم پلی استرو سیم درین

روکش : پی وی سی

موارد مصرف : جهت ارتباط تجهیزات ابزار دقیق بخصوص مکان هایی که نیاز به کنترل فرایند وجود دارد استفاده می شود. نوع شیلد کلی بیشتر برای سیگنال های آنالوگ مورد مصرف قرار میگیرد.

ACSR covered conductor (CCX)

Standard : EN 50397

Rated Voltage : 20 KV or 33 KV

Conductor : Aluminum

Supporter : Galvanized Steel

Insulation : UV resistant XLPE



آلومینیوم تقویت شده با فولاد روکش دار

استاندارد : دستور العمل تعیین الزامات توانیر و EN 50397

ولتاژ اسمی : 20KV و 33KV

هادی : آلومینیوم

نگهدارنده : فولاد گالوانیزه

عایق : پلی اتیلن کراسلینک شده مقاوم در برابر اشعه UV

Aerial bundled conductors (ABC) with aluminium alloy neutral carrier - Five cores

Standard : NFC 33-209, HD621

Rated Voltage : 0.6/1 KV

Phase/lighting conductor : Stranded aluminum (class2)

Neutral carrier : Stranded aluminum alloy (AAAC)

Insulation : Black UV resistant XLPE



کابل خود نگهدار پنج سیمه آلایژی

استاندارد : دستور العمل تعیین الزامات توانیر ، NFC 33-209 ، HD621

ولتاژ اسمی : 0.6/1 KV

هادی فاز/ روشنائی : آلومینیوم تابیده شده کلاس ۲

هادی نول/ مهار : آلومینیوم آلایژی AAAC تابیده شده کلاس ۲

عایق : پلی اتیلن کراسلینک مشکی مقاوم در برابر اشعه UV

Telephone subscriber cable A-2Y(st)2Y

Standard : TCI, VDE

Conductor : Solid annealed copper wire

Insulation : PE

Screen : Polyester tape, aluminum foil, drain wire

Sheath : PE

Application : For indoor and outdoor over the walls. In conduits and ducts where Mechanical damage is not expected.



کابل تلفنی زمینی (مشترکین)

استاندارد : الزامات شرکت مخابرات ایران و VDE

هادی : مس آتیل شده تک لا

عایق : پلی اتیلن

شیلد : نوار پلی استر، مفتول قلع اندود، نوار آلومینیومی

روکش : پلی اتیلن

کاربرد : در تاسیسات تلفنی داخل و خارج ساختمانها کاربرد دارد.

High frequency coaxial cable (RG)

Standards : MIL-C-17, JIS 3501

Conductor : Copper

Insulation : Foamed PE or PE

Shield : Braided copper

Sheathed : PVC

Application : Connection for TV antenna , transmission of RF Signals and general purposes.



کابل های کواکسیال شامل سری های RG

استاندارد : MIL-C-17, JIS 3501

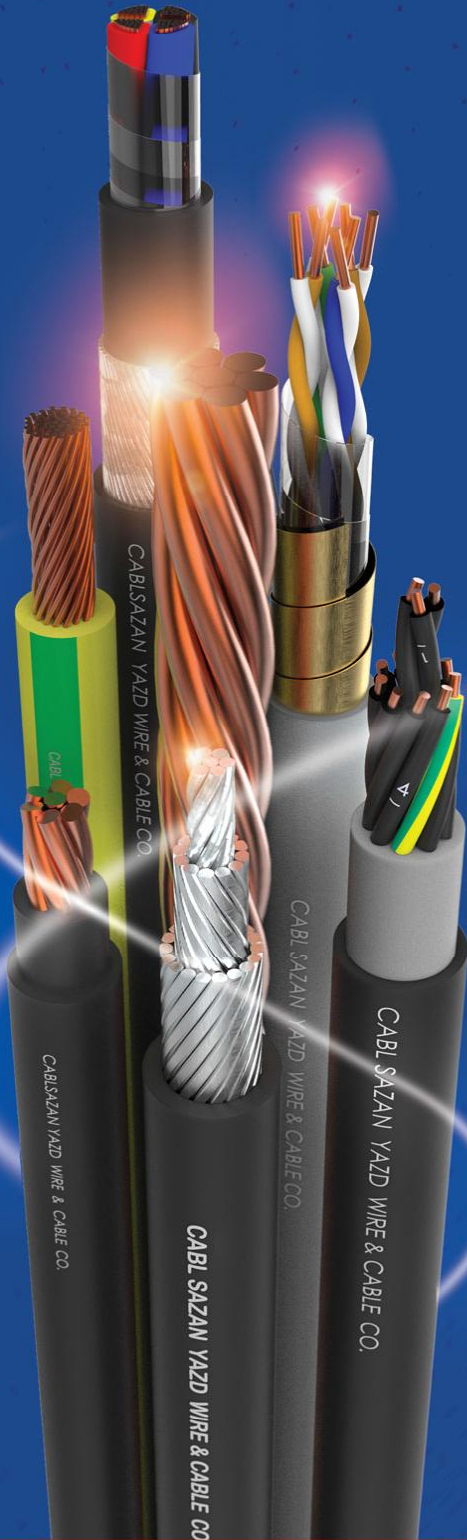
هادی : مس

عایق : پلی اتیلن و یا فوم پلی اتیلن سبک

شیلد : بافته شده مس

روکش : پی وی سی

موارد مصرف : برای اتصال آنتن تلویزیون ، ارسال سیگنال های رادیویی و مصارف عمومی



**CABL SAZAN
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CABL SAZAN YAZD Co. (private joint stock) was registered in July, 2010 under registration No. 12718 and began its activities in the field of manufacturing various types of wires and cables in Yazd Industrial Zone under Permit No. 164/90 issued by Yazd Organization of Mines and Industries in September, the same year.

Through the implementation of development plans, this company has an annual capacity of 9500 tons to produce all kinds of copper and aluminum low pressure wires and cables, telecommunication cables, coaxial and control cables, etc.

Based on the company's long-term plan to employ cutting-edge technologies and up-to-date knowledge, as well as the ability to export and compete with top competitors, the procurement of machinery and equipment from the most valid and high-quality manufacturers, the use of the latest technology, and employing expert and efficient workforce to produce quality products have been considered as the most important priorities of the company. In this regard, the company has honorably managed to get the following certificates from national and international organizations:

- The Mandatory Standard Implementation License (ISIRI 607-3, ISIRI 607-5, ISIRI 3569-1);
- Certificate of Integrated Management System (IMS: ISO9001:2015, ISO14001:2015, ISO45001:2018);
- Certificate of European Standard (CE)
- Green Industry Certificate
- Eco-Friendly Certificate
- Approval Certificate of IRAN Power Organization

The laboratory unit of the company has always been one of the most reliable partner laboratories of the Iranian Standard Institute, with the establishment of the ISO/IEC 17025 international standard and the laboratory qualification certificate from the Standards Organization.

In the past decade, the company has always tried to respond to the customers' demands through manufacturing premium-quality products in accordance with national and international standards with the ultimate goal of entrepreneurship and value creations.



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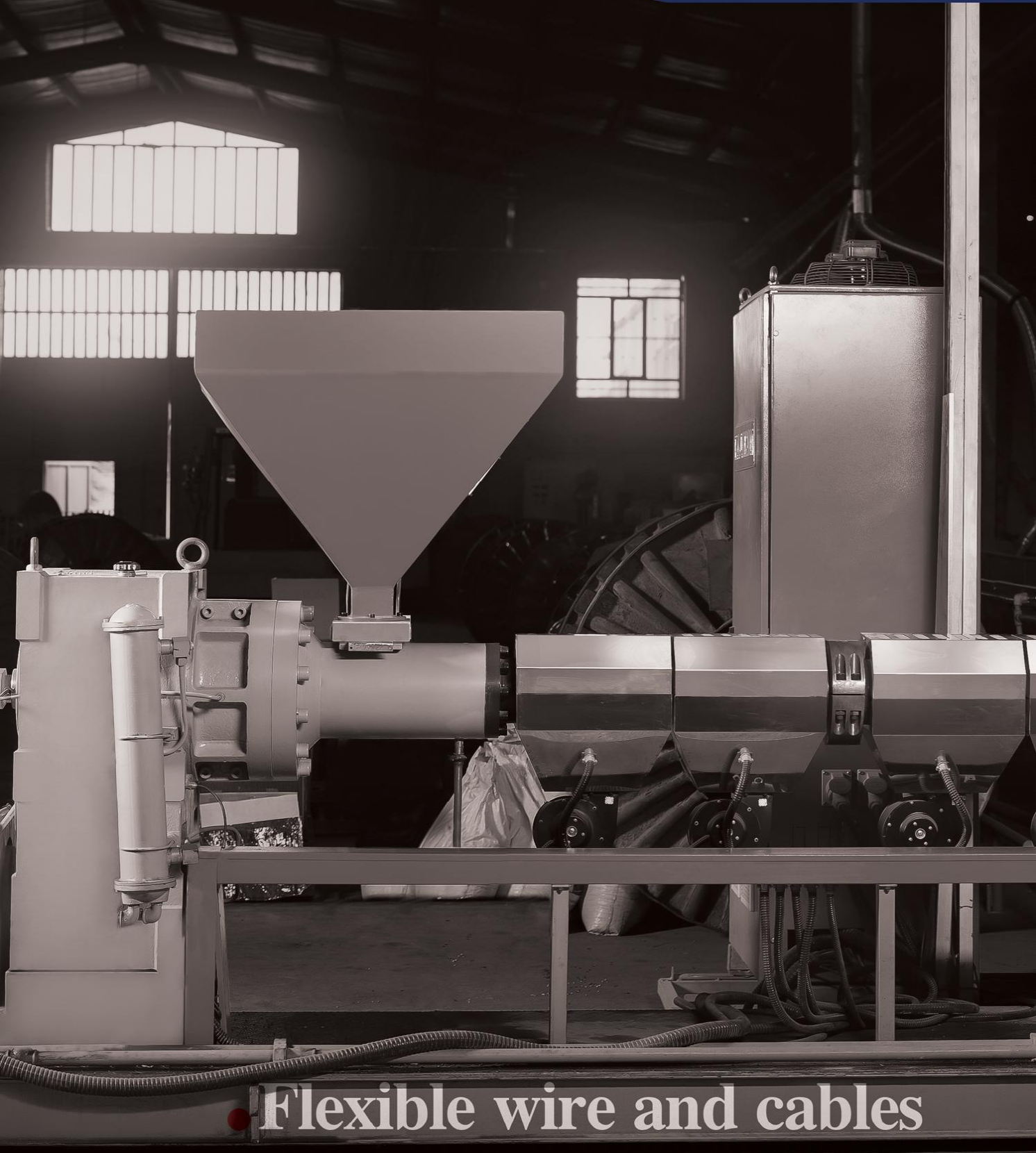
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Flexible wire and cables

Single Core non-sheathed Cable with flexible conductor

For general purposes, NYAF (H05V-K, H07V-K)

Standard: IEC 60228, IEC 60227-3

Rated Voltage: 300/500 V & 450/750V

Construction: CU/PVC

Conductor: Flexible annealed copper (Class 5)

Insulation: PVC/ C

Max conductor temperature: 70°C

Application: In Dry Indoors, in electric panels and Devices. Installation under the plaster in not permitted.



Cross Section	Thickness of Insulation	Mean Overall Dia.	Max. Resistance of Conductor at 20 °C	APP.Weight
mm ²	mm	mm	Ω/Km	Kg/Km
0.5	0.6	2.2	39	9.5
0.75	0.6	2.4	26	12
1.0	0.6	2.6	19.5	14.5
1.5	0.7	3.0	13.3	21
2.5	0.8	3.6	7.98	32
4	0.8	4.2	4.95	46
6	0.8	4.8	3.3	66
10	1.0	6.3	1.91	109
16	1.0	7.1	1.21	165
25	1.2	9.2	0.78	255
35	1.2	10.2	0.554	347
50	1.4	12.1	0.386	480
70	1.4	14.3	0.272	680
95	1.6	16.5	0.206	900
120	1.6	18.5	0.161	1200
150	1.8	22.2	0.129	1494
185	2.0	25	0.106	1831
240	2.2	27.8	0.0801	2336

● Flat non-sheated cord (NYZ)

Standard: IEC 60228, IEC 60277-5

Rated Voltage: 300/300 v

Construction: CU/PVC

Coductor: Flexible annealed copper (Class 6)

Insulation: PVC/D

Max conductor temperature: 70°C

Application: For connecting to portable devices where mechanical stresses are low.

Application for heating appliances is not permissible.



Cross Section	Thickness of Insulation	Mean Overall Dia.	Max. Resistance of Conductor at 20 °C	APP.Weight
mm ²	mm	mm	Ω/Km	Kg/Km
2 × 0.5	0.8	2.7 × 5.5	39	23
2 × 0.75	0.8	3 × 6	26	28
2 × 1	0.8	2.85 × 6	19.5	32
2 × 1.5	0.8	3 × 6.3	13.3	41
2 × 2.5	0.8	3.6 × 7.7	7.98	62



Light & Ordinary PVC flexible cables (cords), NYLHY, NYMHY (H03VV-F, H05VV-F, H03VV-K, H05VV-K)

Standard: IEC 60228, IEC 60227-5

Rated Voltage: 300/300 V, 300/500V

Construction: CU/PVC/PVC

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/D

Sheath: PVC/ST5

Max conductor temperature: 70°C

Application: In dry and damp rooms for supplying portable appliance.



NYLHY Cables (300/300V), According to IEC 60227-52:

Cross Section	Thickness of Insulation	Thickness of Sheath (Nom.)	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
2 × 0.5	0.5	0.6	5.20(5.2 × 3.2)	38(31)
2 × 0.75	0.5	0.6	5.60(5.6 × 3.4)	46(34)
3 × 0.5	0.5	0.6	5.50	44.6
3 × 0.75	0.5	0.6	5.90	54.5

NYMHY Cables (300/500V), According to IEC 60227- 53:

Cross Section	Thickness of Insulation	Thickness of Sheath (Nom.)	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
2 × 0.75	0.6	0.8	6.30	61
2 × 1	0.6	0.8	6.60	68
2 × 1.5	0.7	0.8	7.60	92
2 × 2.5	0.8	1.0	9.40	138
2 × 4	0.8	1.1	10.9	182
3 × 0.75	0.6	0.8	6.80	70
3 × 1	0.6	0.8	7.00	81
3 × 1.5	0.7	0.9	8.30	116
3 × 2.5	0.8	1.1	10.2	175
3 × 4	0.8	1.2	11.6	224
4 × 0.75	0.6	0.8	7.30	83
4 × 1	0.6	0.9	7.80	103
4 × 1.5	0.7	1.0	9.20	144
4 × 2.5	0.8	1.1	11.1	222
4 × 4	0.8	1.2	12.9	282
5 × 0.75	0.6	0.9	8.30	108
5 × 1	0.6	0.9	8.80	125
5 × 1.5	0.7	1.1	10.30	180
5 × 2.5	0.8	1.2	12.40	250
5 × 4	0.8	1.3	14.4	343

● Single Core Flexible Cables (NYMHY)

Standard: IEC60228, IEC60502-1

Rated Voltage: 0.6/1 Kv

Construction: CU/PVC/PVC

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/A

Sheath: PVC/ST1

Max conductor temperature: 70°C

Application: In dry and humid places for electrical devices, where more flexibility is required.



Cross Section	Thickness of Insulation	Thickness of Sheath (Nom.)	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
1 × 16	1	1.4	10.2	230
1 × 25	1.2	1.4	12.6	340
1 × 35	1.2	1.4	13.9	450
1 × 50	1.4	1.4	16.4	612
1 × 70	1.4	1.4	18.5	850
1 × 95	1.6	1.5	20.4	1110
1 × 120	1.6	1.6	22.5	1390
1 × 150	1.8	1.6	24.8	1720
1 × 185	2.0	1.8	28	2100
1 × 240	2.2	1.9	30	2730
1 × 300	2.4	1.9	32.3	3300

● Multicore Flexible Cables (NYMHY- J, NYMHY- O)

Standard: IEC 60228, & IEC60502-1

Rated Voltage: 0.6/1 kV

Construction: CU/PVC/PVC

Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/A

Sheath: PVC/ST1

Max conductor temperature: 70°C

Application: In dry and humid places for electrical devices, where more flexibility is required.



Cross Section	Thickness of Insulation	Thickness of Sheath (Nom.)	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
2 × 1.5	0.8	1.8	9.9	135
2 × 2.5	0.8	1.8	10.8	171
2 × 4	1	1.8	12.7	245
2 × 6	1	1.8	13.9	311
2 × 10	1	1.8	15.6	426
2 × 16	1	1.8	18.4	616
2 × 25	1.2	1.8	21.9	904
2 × 35	1.2	1.8	24.4	1172
3 × 1.5	0.8	1.8	10.4	158
3 × 2.5	0.8	1.8	11.4	205
3 × 4	1	1.8	13.4	295
3 × 6	1	1.8	14.7	380
3 × 10	1	1.8	16.5	530
3 × 16	1	1.8	19.5	774
3 × 25	1.2	1.8	23.3	1148
3 × 35	1.2	1.8	25.9	1497
3 × 25 + 16	1.2 \ 1	1.8	24.8	1303
3 × 35 + 16	1.2 \ 1	1.8	27.1	1632
3 × 50 + 25	1.4 \ 1.2	1.9	31.9	2314
3 × 70 + 35	1.4 \ 1.2	2.0	36.5	3117
3 × 95 + 50	1.6 \ 1.4	2.1	42.2	4171
3 × 120 + 70	1.6 \ 1.4	2.2	46.6	5278
4 × 1.5	0.8	1.8	11.2	189
4 × 2.5	0.8	1.8	12.3	247
4 × 4	1	1.8	14.6	363
4 × 6	1	1.8	16	468
4 × 10	1	1.8	18.1	666
4 × 16	1	1.8	21.5	978.9
4 × 25	1.2	1.8	25.7	1454
4 × 35	1.2	1.8	28.6	1903
5 × 1.5	0.8	1.8	12.1	224
5 × 2.5	0.8	1.8	13.4	297
5 × 4	1	1.8	15.9	436
5 × 6	1	1.8	17.5	567
5 × 10	1	1.8	19.9	813
5 × 16	1	1.8	23.6	1195
5 × 25	1.2	1.8	28.3	1782
5 × 35	1.2	1.9	31.8	2357

● Lift Cables and Cables for flexible connections

Standard: IEC 60228, IEC 60227-6

Rated Voltage: 450/750V & 300/500V

Construction: CU/PVC/PVC

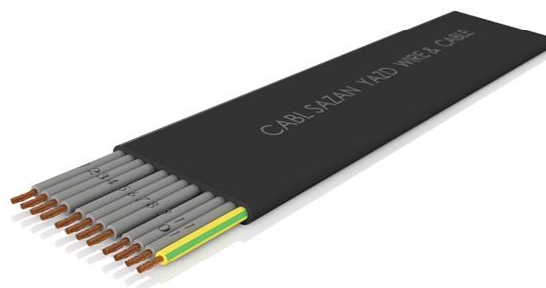
Coductor: Flexible annealed copper (Class 5)

Insulation: PVC/D

Sheath: PVC / ST5

Max conductor temperature: 70°C

Application: For lift and movable fitting



Cross Section <i>mm²</i>	Thickness of Insulation mm	Thickness of Sheath mm			Mean Overall Dia. mm	APP. Weight Kg/Km
		(e3)	(e2)	(e1)		
4 × 0.75	0.6	1.5	0.9	-	4.15 × 12.4	90
4 × 1	0.6	1.5	0.9	-	4.3 × 13	102
4 × 1.5	0.7	1.5	1.0	-	5.0 × 22.8	137
4 × 2.5	0.8	1.8	1.0	-	5.6 × 18	200
4 × 4	0.8	1.8	1.2	-	6.6 × 20.4	280
4 × 6	0.8	1.8	1.2	-	7.2 × 22.8	377
4 × 10	1.0	1.8	1.4	-	9.6 × 30.8	644
4 × 16	1.0	2.0	1.5	-	10.9 × 35.6	945
4 × 25	1.2	2.0	1.6	-	13.3 × 44.4	1464
5 × 0.75	0.6	1.5	0.9	1.0	4.15 × 16.75	136
5 × 1	0.6	1.5	0.9	1.0	4.3 × 17.5	155
5 × 1.5	0.7	1.5	1.0	1.0	5.0 × 20	204
5 × 2.5	0.8	1.8	1.0	1.5	5.6 × 25.1	295
5 × 4	0.8	1.8	1.2	1.5	6.6 × 27.6	414
5 × 6	0.8	1.8	1.2	1.5	7.2 × 30.6	540
5 × 10	1.0	1.8	1.4	1.5	9.6 × 40.6	910
5 × 16	1.0	2.0	1.5	1.5	10.9 × 46.5	1295
5 × 25	1.2	2.0	1.6	1.5	13.3 × 57.5	1970
6 × 0.75	0.6	1.5	0.9	1.0	4.15 × 18.1	154
6 × 1	0.6	1.5	0.9	1.0	4.3 × 19	175
6 × 1.5	0.7	1.5	1.0	1.0	5.0 × 22	230
6 × 2.5	0.8	1.8	1.0	1.5	5.6 × 26.7	360
6 × 4	0.8	1.8	1.2	1.5	6.6 × 30.3	470
6 × 6	0.8	1.8	1.2	1.5	7.2 × 34	612
6 × 10	1.0	1.8	1.4	1.5	9.2 × 46	1050
6 × 16	1.0	2.0	1.5	1.5	10.9 × 53	1502
9 × 4	0.8	1.8	1.2	1.5	6.6 × 44.4	685
9 × 6	0.8	1.8	1.2	1.5	7.2 × 49.8	895
9 × 10	1.0	1.8	1.4	1.5	6.2 × 67.8	1550
9 × 16	1.0	2.0	1.5	1.5	10.9 × 78.1	2225
9 × 25	1.2	2.0	1.6	1.5	13.3 × 97.9	3430
12 × 0.75	0.6	1.5	0.9	1.0	4.15 × 33.2	283

● **Lift Cables and Cables for flexible connections**

Cross Section	Thickness of Insulation	Thickness of Sheath			Mean Overall Dia.	APP. Weight
mm ²	mm	mm			mm	Kg/Km
		(e3)	(e2)	(e1)		
12 × 1	0.6	1.5	0.9	1.0	4.3 × 35	322
12 × 1.5	0.7	1.5	1.0	1.0	5.0 × 41	445
12 × 2.5	0.8	1.8	1.0	1.5	5.6 × 49.8	620
12 × 4	0.8	1.8	1.2	1.5	6.6 × 57	891
12 × 6	0.8	1.8	1.2	1.5	7.2 × 64.2	1170
12 × 10	1.0	1.8	1.4	1.5	9.2 × 88.2	2030
12 × 16	1.0	2.0	1.5	1.5	10.9 × 101.8	2930
16 × 0.75	0.6	1.5	0.9	1.0	4.15 × 43.6	372
16 × 1	0.6	1.5	0.9	1.0	4.3 × 46	425
16 × 1.5	0.7	1.5	1.0	1.0	5.0 × 54	590
16 × 2.5	0.8	1.8	1.0	1.5	5.6 × 65.7	800
16 × 4	0.8	1.8	1.2	1.5	6.6 × 75.3	1180
16 × 6	0.8	1.8	1.2	1.5	7.2 × 85	1550
16 × 10	1.0	1.8	1.4	1.5	9.2 × 117	2696
18 × 0.75	0.6	1.5	0.9	1.0	4.15 × 48.3	415
18 × 1	0.6	1.5	0.9	1.0	4.3 × 51	475
18 × 1.5	0.7	1.5	1.0	1.0	5.0 × 60	530
18 × 2.5	0.8	1.8	1.0	1.5	5.6 × 74.7	714
18 × 4	0.8	1.8	1.2	1.5	6.6 × 83.7	1320
18 × 6	0.8	1.8	1.2	1.5	7.2 × 94.5	1732
20 × 0.75	0.6	1.5	0.9	1.0	4.15 × 54	460
20 × 1	0.6	1.5	0.9	1.0	4.3 × 57	530
20 × 1.5	0.7	1.5	1.0	1.0	5.0 × 67	695
20 × 2.5	0.8	1.8	1.0	1.5	5.6 × 83.6	1021
20 × 4	0.8	1.8	1.2	1.5	6.6 × 93.6	1475
20 × 6	0.8	1.8	1.2	1.5	7.2 × 101.6	1890
24 × 0.75	0.6	1.5	0.9	1.0	4.15 × 64.4	540
24 × 1	0.6	1.5	0.9	1.0	4.3 × 68	630
24 × 1.5	0.7	1.5	1.0	1.0	5.0 × 80	840
24 × 2.5	0.8	1.8	1.0	1.5	5.6 × 100	1225
24 × 4	0.8	1.8	1.2	1.5	6.6 × 112	1770

● Flexible Flat Cables

Standards : IEC60228, IEC60502-1

Rated Voltage : 0.6/1 Kv

Construction : CU/PVC/PVC

Coductor: Flexible annealed copper (Class 5)

Insulation : PVC

Sheath : PVC

Max conductor temperature: 70°C

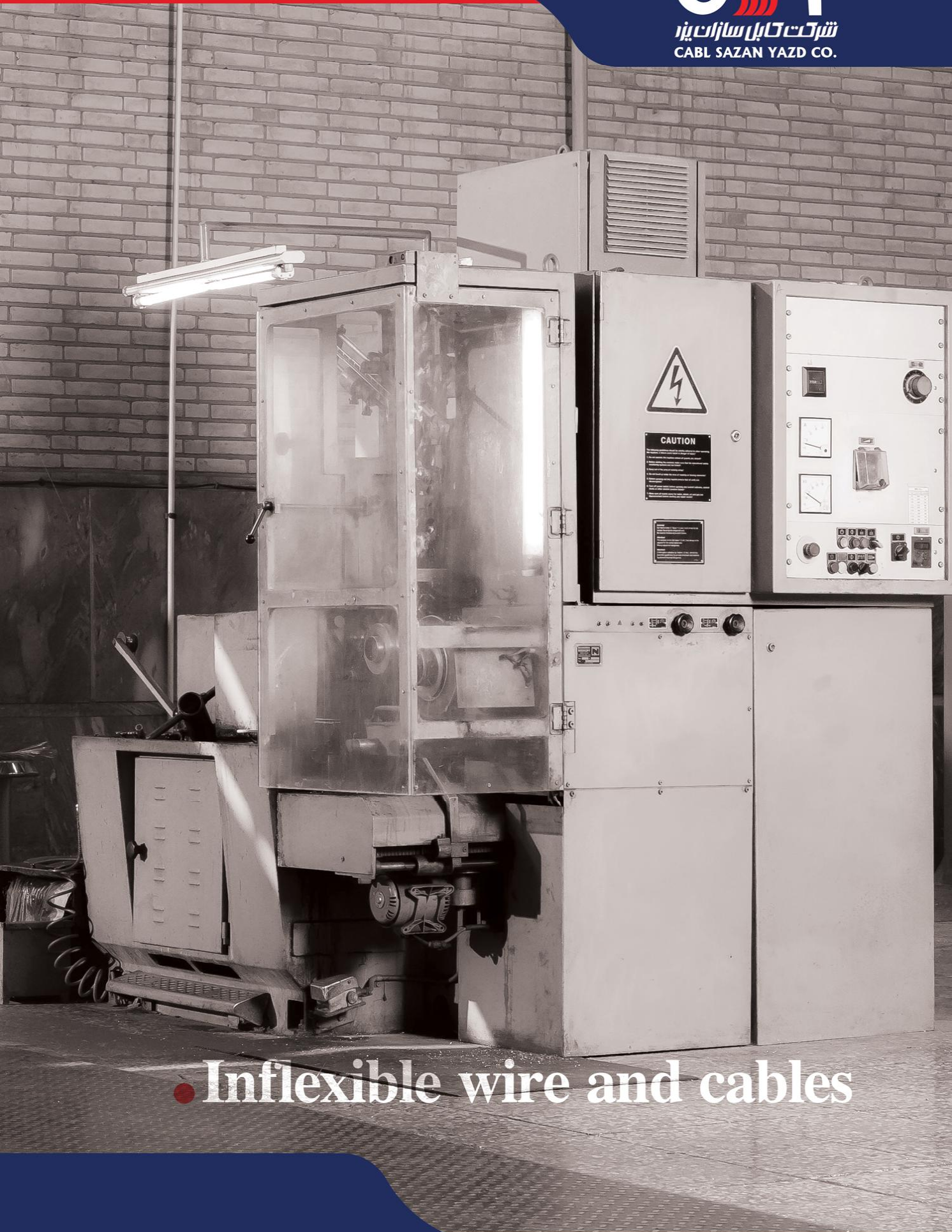
Application: For cabling well pumps.



Cross Section	Thickness of Insulation	Thickness of Sheath	Thickness of Sheath	Mean Overall Dia.	Mean Overall Dia.	APP. Weight
mm^2	mm	Thickness of Less (mm)	Thickness Of Wide (mm)	Dia. Of Less (mm)	Dia. of Wide (mm)	Kg/Km
3 × 25	1.2	1.6	2.0	12.0	30.4	1010
4 × 25	1.2	1.6	2.0	12.0	39.3	1323
3 × 35	1.2	2.2	2.4	14.4	34.80	1381
4 × 35	1.2	2.2	2.4	14.4	44.8	1819
3 × 50	1.4	2.3	2.6	16.5	41	1895
4 × 50	1.4	2.3	2.6	16.5	52.9	2500
3 × 70	1.4	2.3	2.6	18.3	46.3	2721
4 × 70	1.4	2.3	2.6	18.3	60.0	3585
3 × 95	1.6	2.5	2.8	20.7	52.7	3555
4 × 95	1.6	2.5	2.8	20.7	68.5	4687



شرکت کابل سازان یزد
CABL SAZAN YAZD CO.



● Inflexible wire and cables

● **Soft/Hard drawn copper stranded**



A) Hard drawn copper (not annealed)

Standard : BS 125

Application: For distribution voltage overhead.

Cross Section	No. Dia. Strands	Mean Overall Dia.	Min Breaking load	APP. Weight
mm^2	mm	mm	Kn	Kg/Km
10	7 × 1.38	4.1	4.02	89
16	7 × 1.70	5.1	6.40	142
25	7 × 2.14	6.42	9.72	218
35	7 × 2.52	7.5	13.78	298
50	19 × 1.78	9.0	19.39	415
70	19 × 2.14	10.8	26.39	597
95	19 × 2.52	12.6	37.4	810
120	19 × 2.80	14	46.91	1034
150	37 × 2.25	15.8	58.99	1280
185	37 × 2.50	17.5	72.83	1580

B) Soft drawn copper (Annealed)

standard : IEC 60228

Application : For earthing electrical systems.

Cross Section	No. Dia. Strands	Mean Overall Dia.	APP. Weight
mm^2	mm	mm	Kg/Km
10	7 × 1.35	4.05	85
16	7 × 1.68	5.1	135
25	7 × 2.14	6.4	218
35	7 × 2.52	7.5	298
50	19 × 1.78	8.8	415
70	19 × 2.14	10.7	594
95	19 × 2.52	12.6	810
120	37 × 2.03	14.2	1034
150	37 × 2.25	15.8	1280
185	37 × 2.52	17.6	1580

Single-core non-sheathed cable with solid and stranded conductor, for general purposes , NYA (H05V-U, H07V-U, HO7V-R)

Standards : IEC60228 , IEC 60227-3

Rated Voltage: 300/500V & 450/750V

Construction : CU/PVC

Conductor : Annealed Copper conductor class 1 & 2

Insulation : PVC/C

Max conductor temperature: 70°C

Application : Used for general purposes Equipment, switching lighting and building.

Installation under the plaster is not permitted.



Cross Section	Thickness of Insulation	Mean Overall Dia.	Max Resistance of Conductor at 20 °C	APP. Weight
mm ²	mm	mm	Ω/Km	Kg/Km
0.5 (re)	0.6	2.0	36	9
0.75 (re)	0.6	2.2	24.5	11
1.0 (re)	0.6	2.4	18.1	14
1.5 (re)	0.7	2.8	12.1	21
1.5 (rm)	0.7	3.0	12.1	22
2.5 (re)	0.8	3.4	7.41	32
2.5 (rm)	0.8	3.6	7.41	33
4 (re)	0.8	3.9	4.61	49
4 (rm)	0.8	4.2	4.61	50
6 (re)	0.8	4.4	3.08	73
6 (rm)	0.8	4.7	3.08	75
10 (re)	1.0	5.6	1.83	116
10 (rm)	1.0	6.1	1.83	118
16 (rm)	1.0	7.2	1.15	170
25 (rm)	1.2	8.8	0.727	262
35 (rm)	1.2	10	0.524	375
50 (rm)	1.4	11.7	0.387	510
70 (rm)	1.4	13.5	0.268	725
95 (rm)	1.6	15.7	0.193	987
120 (rm)	1.6	17.2	0.153	1225
150 (rm)	1.8	19.4	0.124	1538
185 (rm)	2.0	21.6	0.101	1900
240 (rm)	2.2	25	0.0775	2484
300 (rm)	2.4	27.3	0.0620	3070
400 (rm)	2.6	31	0.0465	4056

Note :

rm: Stranded conductor

re: Solid conductor

● Light inflexible cables, NYM-O, NYM-J (H05VV-R, H05VV-U)

Standard : IEC 60228 , IEC 60227-4

Rated Voltage : 300/500V

Construction : CU/PVC/PVC

Conductor : Annealed copper wire class 1 & 2

Insulation : PVC/C

Inner Sheath : PVC

Sheath : PVC/ST4

Max conductor temperature: 70°C

Application : Indoor, outdoor and underground where mechanical damage is not expected.



Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
2 × 1.5 (re)	0.7	1.2	9.3	117
2 × 1.5 (rm)	0.7	1.2	9.7	126
2 × 2.5 (re)	0.8	1.2	10.5	158
2 × 2.5 (rm)	0.8	1.2	11	170
2 × 4 (re)	0.8	1.2	11.5	210
2 × 4 (rm)	0.8	1.2	12.1	230
2 × 6 (re)	0.8	1.2	12.6	265
2 × 6 (rm)	0.8	1.2	13.2	290
2 × 10 (re)	1.0	1.4	15.6	455
2 × 10 (rm)	1.0	1.4	16.5	490
2 × 16 (rm)	1.0	1.4	18.6	680
2 × 25 (rm)	1.2	1.6	22.5	1010
2 × 35 (rm)	1.2	1.6	25.2	1330
3 × 1.5 (re)	0.7	1.2	9.8	138
3 × 1.5 (rm)	0.7	1.2	10.2	158
3 × 2.5 (re)	0.8	1.2	11.1	192
3 × 2.5 (rm)	0.8	1.2	11.6	205
3 × 4 (re)	0.8	1.2	12.7	250
3 × 4 (rm)	0.8	1.2	12.7	267
3 × 6 (re)	0.8	1.2	13.6	360
3 × 6 (rm)	0.8	1.2	14.4	386
3 × 10 (re)	1.0	1.4	16.4	540
3 × 10 (rm)	1.0	1.4	17.4	590
3 × 16 (rm)	1.0	1.4	19.8	830
3 × 25 (rm)	1.2	1.6	24.2	1350
3 × 35 (rm)	1.2	1.6	26.7	1700

Note :

rm: Stranded conductor

re: Solid conductor

● Light inflexible cables, NYM-O, NYM-J (H05VV-R, H05VV-U)

Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
4 × 1.5 (re)	0.7	1.2	10.5	160
4 × 1.5 (rm)	0.7	1.2	10.9	171
4 × 2.5 (re)	0.8	1.2	11.9	225
4 × 2.5 (rm)	0.8	1.2	12.5	245
4 × 4 (re)	0.8	1.2	13.2	320
4 × 4 (rm)	0.8	1.2	13.9	350
4 × 6 (re)	0.8	1.2	15	430
4 × 6 (rm)	0.8	1.2	15.8	460
4 × 10 (re)	1.0	1.4	17.8	661
4 × 10 (rm)	1.0	1.4	19	710
4 × 16 (rm)	1.0	1.4	21.7	1040
4 × 25 (rm)	1.2	1.6	26.5	4605
4 × 35 (rm)	1.2	1.6	29.3	2085
5 × 1.5 (re)	0.7	1.2	11.3	192
5 × 1.5 (rm)	0.7	1.2	11.8	200
5 × 2.5 (re)	0.8	1.2	13	270
5 × 2.5 (rm)	0.8	1.2	13.6	296
5 × 4 (re)	0.8	1.2	14.8	400
5 × 4 (rm)	0.8	1.2	15.6	450
5 × 6 (re)	0.8	1.2	16.3	514
5 × 6 (rm)	0.8	1.2	17.2	555
5 × 10 (re)	1.0	1.4	19.5	790
5 × 10 (rm)	1.0	1.4	20.9	850
5 × 16 (rm)	1.0	1.4	24.1	1290
5 × 25 (rm)	1.2	1.6	29	1970
5 × 35 (rm)	1.2	1.6	32.6	2560

Note :

rm: Stranded conductor

re: Solid conductor

● Flat cords with insulation and sheath, NYIFY-U

Rated Voltage : 300/500V

Construction: CU/PVC/PVC

Conductor: Annealed copper wire class 1

Insulation: PVC

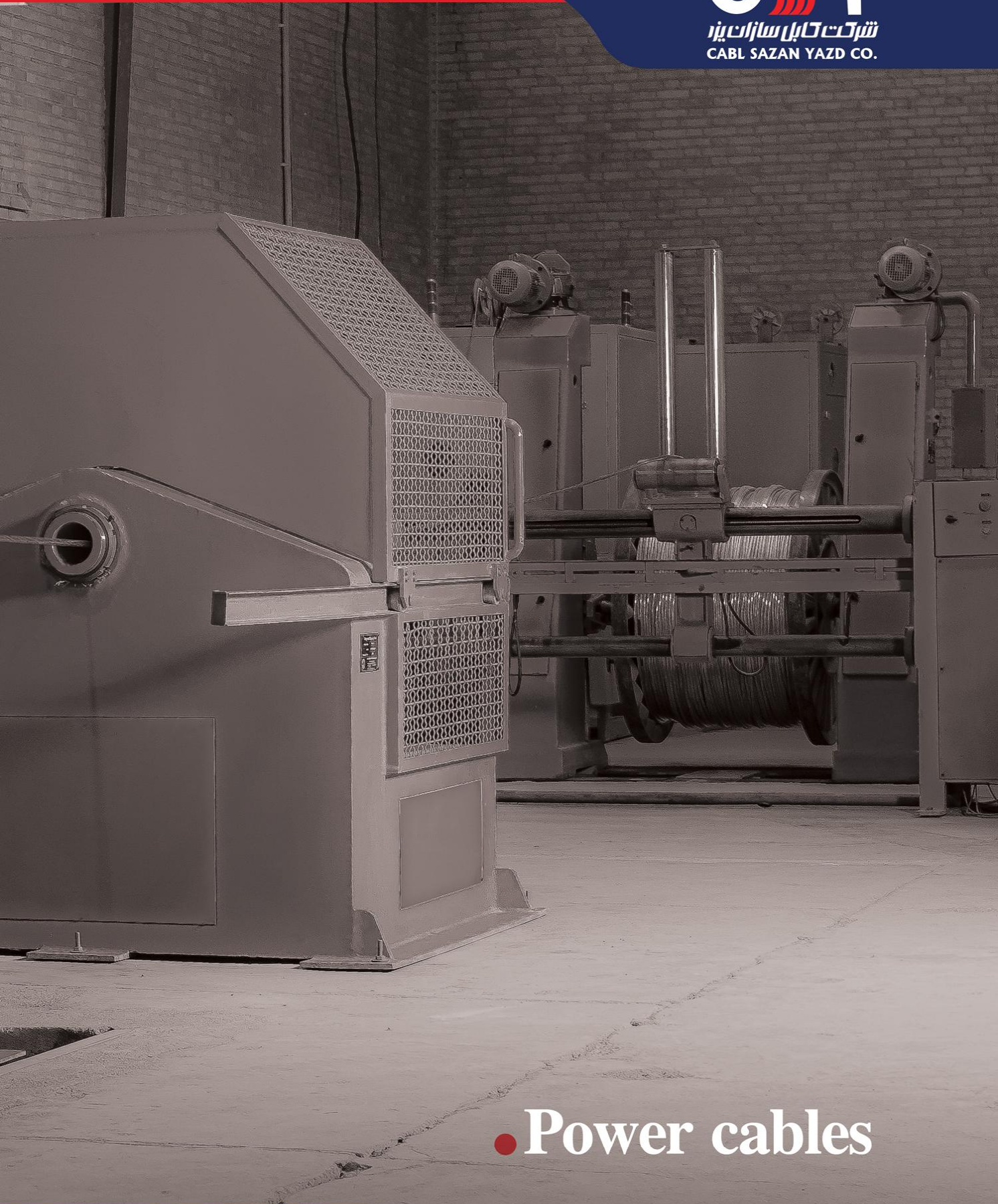
Sheath: PVC

Max conductor temperature: 70°C

Application: Used in buildings and on the wall.



Cross Section	Thickness of Insulation	Thickness of Sheath	APP.Weight
mm^2	mm	mm	Kg/Km
2×1	0.6	0.9	60
2×1.5	0.7	0.9	79
2×2.5	0.8	0.9	110
2×4	0.8	0.9	140
3×1.5	0.7	0.9	130



● Power cables

● Power Cables, NYY, NAYY(re,rm) Single core

Standard: IEC 60228, IEC 60502-1

Rated Voltage: 0.6/1 Kv

Construction: CU(AL)/PVC/PVC

Conductor: Annealed copper wire or aluminum (class 1& 2)

Insulation: PVC/A

Sheath: PVC/ST1

Max conductor temperature: 70°C

Application: Indoor, Outdoor and underground, where mechanical damages are not be expected.



Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight (with CU conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	Kg/km	Kg/Km
1 × 1.5 (re)	0.8	1.4	5.8	50	---
1 × 1.5(rm)	0.8	1.4	6.0	52	---
1 × 2.5 (re)	0.8	1.4	6.2	63	---
1 × 2.5 (rm)	0.8	1.4	6.4	66	---
1 × 4 (re)	1.0	1.4	7.0	88	---
1 × 4 (rm)	1.0	1.4	7.4	92	---
1 × 6 (re)	1.0	1.4	7.6	110	---
1 × 6 (rm)	1.0	1.4	7.9	116	---
1 × 10 (re)	1.0	1.4	8.4	155	112
1 × 10 (rm)	1.0	1.4	8.8	162	128
1 × 16 (rm)	1.0	1.4	10.0	250	150
1 × 25 (rm)	1.2	1.4	11.5	350	170
1 × 35 (rm)	1.2	1.4	12.8	440	210
1 × 50 (rm)	1.4	1.4	14.5	615	280
1 × 70 (rm)	1.4	1.5	16.5	825	360
1 × 95 (rm)	1.6	1.5	18.8	1127	470
1 × 120 (rm)	1.6	1.6	20.5	1370	600
1 × 150 (rm)	1.8	1.7	22.8	1680	780
1 × 185(rm)	2.0	1.8	25.1	2095	900
1 × 240 (rm)	2.2	1.9	28.2	2720	1150
1 × 300 (rm)	2.4	2.0	31.5	3370	1450
1 × 400 (rm)	2.6	2.1	34.8	4268	1620
1 × 500 (rm)	2.8	2.2	39.0	5350	2000

Note :

rm: Stranded conductor

re: Solid conductor

● Multi core Power Cables (NYY- O, NYY- J, NAYY- O, NAYY- J)

Standard: IEC 60228, IEC 60502-1

Rated Voltage: 0.6/1 Kv

Construction: CU(AL)/PVC/PVC

Conductor: Annealed copper wire or aluminum (class 1& 2)

Insulation: PVC/A

Inner Sheath: Wrapping tape (Poly Propylene) or extruded PVC

Sheath: PVC/ST1

Max conductor temperature: 70°C

Application: Indoor, Outdoor and underground, where mechanical damages are not be expected.



Cross Section <i>mm²</i>	Thickness of Insulation mm	Thickness of Sheath mm	Mean Overall Dia. mm	APP. Weight (with CU conductor) Kg/km	APP. Weight (with AL Conductor) Kg/Km
2 × 1.5 (re)	0.8	1.8	11.6	185	---
2 × 1.5 (rm)	0.8	1.8	11.9	195	---
2 × 2.5 (re)	0.8	1.8	12.5	223	---
2 × 2.5 (rm)	0.8	1.8	12.8	236	---
2 × 4 (re)	1.0	1.8	14.1	303	---
2 × 4 (rm)	1.0	1.8	14.7	323	---
2 × 6 (re)	1.0	1.8	15.2	368	---
2 × 6 (rm)	1.0	1.8	15.8	395	---
2 × 10 (re)	1.0	1.8	16.8	492	360
2 × 10 (rm)	1.0	1.8	17.6	527	380
2 × 16 (rm)	1.0	1.8	20.6	757	490
2 × 25 (rm)	1.2	1.8	23.3	1080	680
2 × 35 (rm)	1.2	1.8	25.6	1360	830
2 × 50 (rm)	1.4	1.9	29.5	1820	989
2 × 70 (rm)	1.4	2.1	33.8	3550	1300
2 × 95 (rm)	1.6	2.2	38.5	3350	1465
2 × 120 (rm)	1.6	2.4	42.1	4100	2125
2 × 150 (rm)	1.8	2.5	46.7	5000	2564
2 × 185 (rm)	2.0	2.7	51.5	6200	3160
2 × 240 (rm)	2.2	2.9	58.2	7900	4120

Note :

rm: Stranded conductor

re: Solid conductor

● Multi core Power Cables (NYY- O, NYY- J, NAYY- O, NAYY- J)

Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	Kg/km	Kg/Km
3 × 1.5(re)	0.8	1.8	12.0	207	---
3 × 1.5 (rm)	0.8	1.8	12.4	218	---
3 × 2.5 (re)	0.8	1.8	13.0	255	---
3 × 2.5 (rm)	0.8	1.8	13.4	270	---
3 × 4 (re)	1.0	1.8	14.8	353	---
3 × 4 (rm)	1.0	1.8	15.4	374	---
3 × 6 (re)	1.0	1.8	16.0	436	---
3 × 6 (rm)	1.0	1.8	16.6	465	---
3 × 10 (re)	1.0	1.8	17.6	597	440
3 × 10 (rm)	1.0	1.8	18.5	635	491
3 × 16 (rm)	1.0	1.8	21.8	933	545
3 × 25(rm)	1.2	1.8	24.6	1330	770
3 × 35 (rm)	1.2	1.8	27.5	1700	940
3 × 50 (sm)	1.4	1.8	25.2	1800	850
3 × 70 (sm)	1.4	1.9	28.5	2500	1200
3 × 95 (sm)	1.6	2.0	32.6	3300	1500
3 × 120 (sm)	1.6	2.1	35.5	4200	1680
3 × 150 (sm)	1.8	2.3	39.6	5100	2050
3 × 185 (sm)	2.0	2.4	44.2	6280	2510
3 × 240 (sm)	2.2	2.6	50.0	8100	3195
3 × 25 + 16 (rm)	1.2 \ 1.0	1.8	26.5	1550	1000
3 × 35 + 16 (rm)	1.2 \ 1.0	1.8	28.0	2000	1200
3 × 50 + 25 (sm)	1.4 \ 1.2	1.8	27.0	2050	1020
3 × 70 + 35 (sm)	1.4 \ 1.2	2.0	32	2800	1350
3 × 95 + 50 (sm)	1.6 \ 1.4	2.1	35.4	3800	1800
3 × 120 + 70 (sm)	1.6 \ 1.4	2.2	39	4800	2190
3 × 150 + 70 (sm)	1.8 \ 1.4	2.3	43	5700	2786
3 × 185 + 95 (sm)	2.0 \ 1.6	2.5	48	7100	3358
3 × 240 + 120 (sm)	2.2 \ 1.6	2.7	54	8800	4293
3 × 300 + 150 (sm)	2.4 \ 1.8	3.0	62	11360	5476
4 × 1.5 (re)	0.8	1.8	12.8	241	---
4 × 1.5 (rm)	0.8	1.8	13.2	254	---
4 × 2.5 (re)	0.8	1.8	13.9	301	---
4 × 2.5 (rm)	0.8	1.8	14.3	319	---
4 × 4 (re)	1.0	1.8	16.0	422	---
4 × 4 (rm)	1.0	1.8	16.6	447	---
4 × 6 (re)	1.0	1.8	17.2	528	---
4 × 6 (rm)	1.0	1.8	17.9	562	---
4 × 10 (re)	1.0	1.8	19.1	731	480
4 × 10 (rm)	1.0	1.8	20.1	777	495
4 × 16 (rm)	1.0	1.8	23.0	1100	690
4 × 25 (rm)	1.2	1.9	27.1	1650	900
4 × 35 (rm)	1.2	2.0	30.0	2204	1110
4 × 50 (sm)	1.4	2.0	30.5	2310	1000
4 × 70 (sm)	1.4	2.1	33.0	3250	1320
4 × 95 (sm)	1.6	2.2	38.0	4310	1770
4 × 120 (sm)	1.6	2.4	42.5	5350	2150
4 × 150 (sm)	1.8	2.5	46.1	6500	2650
4 × 185 (sm)	2.0	2.7	53.4	8700	3600
4 × 240 (sm)	2.2	2.9	62.8	10250	4200

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

● Multi core Power Cables (NYY- O, NYY- J, NAYY- O, NAYY- J)

Cross Section <i>mm²</i>	Thickness of Insulation mm	Thickness of Sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/km	APP. Weight (with AL Conductor) Kg/Km
5 × 1.5 (re)	0.8	1.8	13.6	278	---
5 × 1.5 (rm)	0.8	1.8	14.1	293	---
5 × 2.5 (re)	0.8	1.8	14.8	351	---
5 × 2.5 (rm)	0.8	1.8	15.4	373	---
5 × 4 (re)	1.0	1.8	17.0	497	---
5 × 4 (rm)	1.0	1.8	17.9	528	---
5 × 6 (re)	1.0	1.8	18.6	628	---
5 × 6 (rm)	1.0	1.8	19.4	669	---
5 × 10 (re)	1.0	1.8	21.0	878	620
5 × 10 (rm)	1.0	1.8	22.0	933	645
5 × 16 (rm)	1.0	1.8	24.7	1342	790
5 × 25 (rm)	1.2	1.9	30.0	2050	1250
5 × 35 (rm)	1.2	2.0	33.0	2660	1579

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor

Power cable, XLPE insulated , PVC or halogen free sheathed (N2XY, N2XH NA2XY, NA2XH)

Standard: IEC 60828, IEC 60502-1

Rated voltage: 0.6/1 Kv

Conductor: Annealed copper wire or aluminum

Insulation: XPLE

Inner sheath: Wrapping tape (Poly Propylene), extruded PVC or HFFR

Sheath: PVC or HFFR

Max conductor: 90°C

Application: Used for distribution of electrical energy for fixed instalations in underground and open air where mechanical damages are not to be expected.



Cross Section <i>mm²</i>	Thickness of Insulation mm	Thickness of sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/km	APP. Weight (with AL Conductor) Kg/Km
1 × 16 (rm)	0.7	1.4	9.4	200	130
1 × 25(rm)	0.9	1.4	11.1	300	145
1 × 35(rm)	0.9	1.4	12.1	395	180
1 × 50(rm)	1.0	1.4	13.6	520	230
1 × 70(rm)	1.1	1.5	15.8	730	300
1 × 95(rm)	1.1	1.6	17.9	980	400
1 × 120(rm)	1.2	1.6	19.6	1250	480
1 × 150(rm)	1.4	1.7	22.0	1560	590
1 × 185(rm)	1.6	1.8	24.3	1920	720
1 × 240(rm)	1.7	1.9	27.1	2550	910
1 × 300(rm)	1.8	2.0	30.1	3100	1250
1 × 400(rm)	2.0	2.1	33.4	3800	1430
1 × 500(rm)	2.2	2.2	37.6	4880	1780
2 × 1.5(re)	0.7	1.8	11.4	190	---
2 × 2.5(re)	0.7	1.8	12.2	230	---
2 × 4(re)	0.7	1.8	13.0	280	---
2 × 6(re)	0.7	1.8	14.0	340	---
2 × 10(re)	0.7	1.8	15.6	470	338
2 × 16(rm)	0.7	1.8	18.7	630	461
2 × 25(rm)	0.9	1.8	21.8	910	600
2 × 35(rm)	0.9	1.8	24.0	1160	730
2 × 50(rm)	1.0	1.9	27.6	1180	500
2 × 70(rm)	1.1	2.0	32.1	1495	630
2 × 95(rm)	1.1	2.2	36.5	2000	830
2 × 120(rm)	1.2	2.3	40.2	2500	1030
2 × 150(rm)	1.4	2.4	44.5	3100	1270
2 × 185(rm)	1.6	2.6	49.6	3850	1560
2 × 240(rm)	1.7	2.8	56.0	5000	1980

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Power cable, XLPE insulated , PVC or halogen free sheathed (N2XY, N2XH NA2XY, NA2XH)

Cross Section	Thickness of Insulation	Thickness of sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	Kg/km	Kg/Km
3 × 1.5(re)	0.7	1.8	11.7	200	---
3 × 2.5(re)	0.7	1.8	12.6	250	---
3 × 4(re)	0.7	1.8	13.7	320	---
3 × 6(re)	0.7	1.8	14.6	400	---
3 × 10(re)	0.7	1.8	16.7	550	382
3 × 16(rm)	0.7	1.8	19.8	770	531
3 × 25(rm)	0.9	1.8	23.3	1140	660
3 × 35(rm)	0.9	1.8	24.4	1480	830
3 × 50(sm)	1.0	1.9	23.2	1545	670
3 × 70(sm)	1.1	2.0	27.1	2180	900
3 × 95(sm)	1.1	2.0	31.5	2940	1170
3 × 120(sm)	1.2	2.1	34.6	3680	1450
3 × 150(sm)	1.4	2.2	38.0	5440	1800
3 × 185(sm)	1.6	2.4	43.5	5700	2220
3 × 240(sm)	1.7	2.5	48.0	7360	2810
3 × 25/16(rm)	0.9/0.7	1.8	25.4	1300	790
3 × 35/16(rm)	0.9/0.7	1.9	28.2	1600	922
3 × 50/25(sm)	1.0/0.9	1.8	26.5	1850	869
3 × 70/35(sm)	1.1/0.9	1.9	30	2550	1177
3 × 95/50(sm)	1.1/1.0	2.0	33	3500	1623
3 × 120/70(sm)	1.2/1.1	2.1	36.5	4400	1990
3 × 150/70(sm)	1.4/1.1	2.3	42	5300	2386
3 × 185/95(sm)	1.6/1.1	2.4	45	6650	3008
3 × 240/120(sm)	1.7/1.2	2.7	53	8300	3893
4 × 1.5(re)	0.7	1.8	12.3	245	---
4 × 2.5(re)	0.7	1.8	13.4	300	---
4 × 4(re)	0.7	1.8	14.4	395	---
4 × 6(re)	0.7	1.8	15.8	490	---
4 × 10(re)	0.7	1.8	17.7	710	470
4 × 16(rm)	0.7	1.8	21.2	1040	580
4 × 25(rm)	0.9	1.8	25.3	1410	770
4 × 35(rm)	0.9	1.8	28.0	1830	960
4 × 50(sm)	1.0	1.8	27.7	2030	850
4 × 70(sm)	1.1	2.0	31.0	2870	1160
4 × 95(sm)	1.1	2.1	34.5	3880	1520
4 × 120(sm)	1.2	2.2	38	4900	1900
4 × 150(sm)	1.4	2.4	44.0	6000	2320
4 × 185(sm)	1.6	2.5	46.0	7480	2900

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

On The Power Line...

Power cable, XLPE insulated ,

PVC or halogen free sheathed (N2XY, N2XH NA2XY, NA2XH),

Cross Section	Thickness of Insulation	Thickness of sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	Kg/km	Kg/Km
5 × 1.5(re)	0.7	1.8	13.1	260	---
5 × 2.5(re)	0.7	1.8	14.4	325	---
5 × 4(re)	0.7	1.8	16.0	427	---
5 × 6(re)	0.7	1.8	17.2	550	---
5 × 10(rm)	0.7	1.8	20.0	785	505
5 × 16(rm)	0.7	1.9	23.0	1130	682
5 × 25(rm)	0.9	2.0	27.5	1685	985
5 × 35(rm)	0.9	2.2	31.5	2200	1219

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

● Wire armored power cables (NYRY, NAYRY)

Standard: IEC 60228, IEC 60502-1

Rated voltage: 0.6/1 Kv

Conductor: Annealed copper wire or aluminum

Insulation: PVC

Bedding: PVC

Armour: Galvanized steel wire for multi cores or Aluminum wire for single core.

Sheath: PVC

Max conductor temperature: 70°C

Application: Used outdoor, in dutes or underground, where mechanical damage is expected.



Cross Section <i>mm²</i>	Thickness of Insulation mm	Armour Wire Dia. mm	Thickness of sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/Km	APP. Weight (with AL Conductor) Kg/Km
1 × 25(rm)	1.2	0.9	1.8	16.3	480	309
1 × 35(rm)	1.2	0.9	1.8	17.4	600	360
1 × 50(rm)	1.4	1.6	1.8	20.7	745	474
1 × 70(rm)	1.4	1.6	1.8	22.5	985	574
1 × 95(rm)	1.6	1.6	1.8	25	1330	724
1 × 120(rm)	1.6	1.6	1.8	26.7	1590	880
1 × 150(rm)	1.8	1.6	1.9	29	1900	1014
1 × 185(rm)	2.0	1.6	2.0	31.5	2320	1198
1 × 240(rm)	2.2	1.6	2.1	34.7	2930	1488
1 × 300(rm)	2.4	2.0	2.2	38.0	3700	1843
1 × 400(rm)	2.6	2.0	2.4	425	4610	2212
1 × 500(rm)	2.8	2.0	2.5	47	5550	2680
2 × 1.5(re)	0.8	0.9	1.8	13.7	330	---
2 × 2.5(rm)	0.8	0.9	1.8	15.0	383	---
2 × 4(rm)	1.0	1.25	1.8	16.7	570	---
2 × 6(rm)	1.0	1.25	1.8	17.9	650	---
2 × 10(rm)	1.0	1.25	1.8	20	800	749
2 × 16(rm)	1.0	1.6	1.8	22	1180	868
2 × 25(rm)	1.2	1.6	1.9	27	1530	1237
2 × 35(rm)	1.2	2.0	1.9	29.5	1870	1422
2 × 50(rm)	1.4	2.0	2.1	34	2310	1747
2 × 70(rm)	1.4	2.0	2.2	38	3260	2358
2 × 95(rm)	1.6	2.0	2.4	43	4110	2932
2 × 120(rm)	1.6	2.5	2.5	47.6	4900	3381
2 × 150(rm)	1.8	2.5	2.7	52	6200	4285
2 × 185(rm)	2.0	2.5	2.8	57	7440	5087
2 × 240(rm)	2.2	2.5	3.1	64	9130	6267

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor

● Wire armored power cables (NYRY, NAYRY)

Cross Section	Thickness of Insulation	Armour Wire Dia.	Thickness of sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3 × 1.5(re)	0.8	0.9	1.8	14.2	360	---
3 × 2.5(rm)	0.8	1.25	1.8	15.5	420	---
3 × 4(rm)	1.0	1.25	1.8	17.7	630	---
3 × 6(rm)	1.0	1.25	1.8	18.8	740	---
3 × 10(rm)	1.0	1.6	1.8	22.3	930	811
3 × 16(rm)	1.0	1.6	1.8	24.7	1390	945
3 × 25(rm)	1.2	1.6	1.9	28.5	1820	1353
3 × 35(rm)	1.2	1.6	1.9	31.0	2240	1580
3 × 50(sm)	1.4	1.6	2.0	32.0	3050	1617
3 × 70(sm)	1.4	2.0	2.1	35.6	4000	2131
3 × 95(sm)	1.6	2.0	2.2	39.7	5100	2640
3 × 120(sm)	1.6	2.0	2.3	42.2	6480	3062
3 × 150(sm)	1.8	2.5	2.6	50.0	7700	3937
3 × 185(sm)	2.0	2.5	2.6	52.2	9300	4664
3 × 240(sm)	2.2	2.5	2.9	60.0	11700	5728
3 × 25/16(rm)	1.2/1.0	1.6	1.9	30	2100	1555
3 × 35/16(rm)	1.2/1.0	1.6	2.0	31.8	2450	1821
3 × 50/25(sm)	1.4/1.2	1.6	2.0	31	2850	2115
3 × 70/35(sm)	1.4/1.2	2.0	2.2	37.4	3900	2455
3 × 95/50(sm)	1.6/1.4	2.0	2.3	41	5100	3070
3 × 120/70(sm)	1.6/1.4	2.5	2.5	47	6150	4026
3 × 150/70(sm)	1.8/1.4	2.5	2.6	51	7900	4606
3 × 185/195(sm)	2.0/1.6	2.5	2.7	55	9500	5296
3 × 240/120(sm)	2.2/1.6	2.5	3.0	62	11950	6500
4 × 1.5(re)	0.8	0.9	1.8	14.3	410	---
4 × 2.5(rm)	0.8	0.9	1.8	15.8	560	---
4 × 4(rm)	1.0	0.9	1.8	18.0	720	---
4 × 6(rm)	1.0	0.9	1.8	19.5	860	---
4 × 10(rm)	1.0	1.6	1.8	24.0	1100	923
4 × 16(rm)	1.0	1.6	1.8	26.5	1640	1196
4 × 25(rm)	1.2	1.6	2.0	31.0	2200	1554
4 × 35(rm)	1.2	2.5	2.1	35.0	2740	1826
4 × 50(sm)	1.4	2.5	2.2	37.0	3340	2124
4 × 70(sm)	1.4	2.5	2.3	41.2	4350	2570
4 × 95(sm)	1.6	2.5	2.5	47.9	5650	3518
4 × 120(sm)	1.6	2.5	2.6	51.0	6625	4141
4 × 150(sm)	1.8	2.5	2.8	56.0	8600	4824
4 × 185(sm)	2.0	2.5	3.0	60.6	10300	5797
4 × 240(sm)	2.2	2.5	3.0	68.0	13100	7020
5 × 1.5(re)	0.8	0.9	1.8	16.0	460	---
5 × 2.5(re)	0.8	0.9	1.8	17.0	630	---
5 × 4(re)	1.0	1.25	1.8	20.0	830	---
5 × 6(rm)	1.0	1.6	1.8	23.0	990	---
5 × 10(rm)	1.0	1.6	1.8	25.8	1400	1161
5 × 16(rm)	1.0	1.6	1.9	29.0	1920	1363
5 × 25(rm)	1.2	2.0	2.1	34.5	2600	1777
5 × 35(rm)	1.2	2.0	2.1	35.5	3530	2323

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

On The Power Line...

● Wire armored power cables (N2XRY, NA2XRY)

Standard: IEC 60228, IEC 60502-1

Rated voltage : 0.6/1 Kv

Conductor: Annealed copper wire or aluminum

Insulation: XLPE

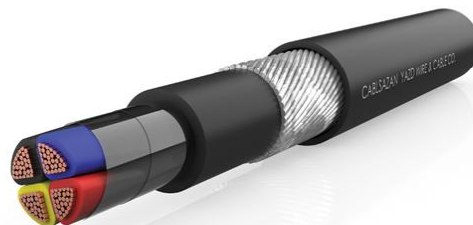
Bedding: PVC

Armour: Galvanized steel wire for multi cores or Aluminum wire for single core.

Sheath: PVC

Max conductor temperature: 90°C

Application: Used outdoor, in dutes or underground, where mechanical damage is expected.



Cross Section	Thickness of Insulation	Armour Wire Dia.	Thickness of sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
1 × 25(rm)	0.9	0.9	1.4	14.4	430	276
1 × 35(rm)	0.9	0.9	1.4	15.4	536	324
1 × 50(rm)	1	1.25	1.5	17.7	718	421
1 × 70(rm)	1.1	1.25	1.5	19.5	949	524
1 × 95(rm)	1.1	1.25	1.6	21.4	1229	646
1 × 120(rm)	1.2	1.6	1.7	23.7	1546	805
1 × 150(rm)	1.4	1.6	1.7	25.6	1837	920
1 × 185(rm)	1.6	1.6	1.8	27.7	2236	1094
1 × 240(rm)	1.7	1.6	1.9	30.7	2859	1348
1 × 300(rm)	1.8	1.6	1.9	32.8	3459	1579
1 × 400(rm)	2	2	2.1	37.1	4328	2017
1 × 500(rm)	2.2	2	2.2	41.1	5490	2440
2 × 1.5(re)	0.7	0.9	1.8	13.3	334	---
2 × 2.5(rm)	0.7	0.9	1.8	14.1	380	---
2 × 4(rm)	0.7	0.9	1.8	15.3	459	---
2 × 6(rm)	0.7	0.9	1.8	16.3	542	---
2 × 10(rm)	0.7	1.25	1.8	18.9	784	657
2 × 16(rm)	0.7	1.25	1.8	20.3	966	770
2 × 25(rm)	0.9	1.6	1.8	24.0	1413	1102
2 × 35(rm)	0.9	1.6	1.8	26.0	1722	1293
2 × 50(rm)	1	1.6	1.8	28.8	2152	1547
2 × 70(rm)	1.1	1.6	2	32.8	2833	1975
2 × 95(rm)	1.1	2	2.1	37.3	3795	2617
2 × 120(rm)	1.2	2	2.2	40.7	4598	3101
2 × 150(rm)	1.4	2	2.3	44.7	5466	3614
2 × 185(rm)	1.6	2.5	2.5	50.3	7005	4698
2 × 240(rm)	1.7	2.5	2.7	56.3	8828	5776
3 × 1.5(re)	0.7	0.9	1.8	13.8	361	---
3 × 2.5(rm)	0.7	0.9	1.8	14.6	419	---

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



● Wire armored power cables (N2XRY, NA2XRY)

Cross Section	Thickness of Insulation	Armour Wire Dia.	Thickness of sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3 × 4(rm)	0.7	0.9	1.8	15.9	511	---
3 × 6(rm)	0.7	0.9	1.8	17.0	613	---
3 × 10(rm)	0.7	1.25	1.8	19.7	897	707
3 × 16(rm)	0.7	1.25	1.8	21.2	1128	833
3 × 25(rm)	0.9	1.6	1.8	25.2	1685	1220
3 × 35(rm)	0.9	1.6	1.8	27.3	2057	1414
3 × 50(sm)	1	1.6	1.9	26.9	2278	1384
3 × 70(sm)	1.1	2	2	31.4	3195	1908
3 × 95(sm)	1.1	2	2.2	34.5	4068	2302
3 × 120(sm)	1.2	2	2.3	37.5	4996	2750
3 × 150(sm)	1.4	2.5	2.5	43.0	6359	3580
3 × 185(sm)	1.6	2.5	2.6	46.9	7646	4186
3 × 240(sm)	1.7	2.5	2.8	52.2	9712	5134
3 × 25/16(rm)	0.9/0.7	1.6	1.8	27.2	1947	1383
3 × 35/16(rm)	0.9/0.7	1.6	1.8	29.6	2378	1638
3 × 50/25(sm)	1/0.9	1.6	1.9	30.9	2705	1656
3 × 70/35(sm)	1.1/0.9	2	2.1	34.8	3702	2201
3 × 95/50(sm)	1.1/1	2	2.2	38.5	4733	2668
3 × 120/70(sm)	1.2/1.1	2	2.4	42.8	5923	3248
3 × 150/70(sm)	1.4/1.1	2.5	2.5	48.5	7343	4136
3 × 185/95(sm)	1.6/1.1	2.5	2.7	51.7	8828	4779
3 × 240/120(sm)	1.7/1.2	2.5	2.9	57.4	11157	5830
4 × 1.5(re)	0.7	0.9	1.8	14.5	402	---
4 × 2.5(rm)	0.7	0.9	1.8	15.5	474	---
4 × 4(rm)	0.7	0.9	1.8	16.9	586	---
4 × 6(rm)	0.7	1.25	1.8	18.7	787	---
4 × 10(rm)	0.7	1.25	1.8	21.2	1059	805
4 × 16(rm)	0.7	1.6	1.8	23.5	1439	1045
4 × 25(rm)	0.9	1.6	1.8	27.2	2000	1379
4 × 35(rm)	0.9	1.6	1.9	29.8	2509	1653
4 × 50(sm)	1	1.6	2	29.8	2860	1668
4 × 70(sm)	1.1	2	2.2	34.6	4023	2307
4 × 95(sm)	1.1	2	2.3	38.5	5174	2818
4 × 120(sm)	1.2	2.5	2.5	43.7	6729	3734
4 × 150(sm)	1.4	2.5	2.6	47.8	8034	4329
4 × 185(sm)	1.6	2.5	2.8	52.5	9744	5130
4 × 240(sm)	1.7	2.5	3	58.7	12432	6327
5 × 1.5(re)	0.7	0.9	1.8	15.4	449	---
5 × 2.5(re)	0.7	0.9	1.8	16.5	537	---
5 × 4(re)	0.7	1.25	1.8	18.7	747	---
5 × 6(rm)	0.7	1.25	1.8	20.1	901	---
5 × 10(rm)	0.7	1.25	1.8	22.8	1223	906
5 × 16(rm)	0.7	1.6	1.8	25.3	1681	1190
5 × 25(rm)	0.9	1.6	1.8	29.4	2336	1561
5 × 35(rm)	0.9	1.6	1.9	32.3	2940	1870

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

● Tape armored cables, (PVC insulation, PVC sheath)(NYBY, NAYBY)

Standard: IEC 60228, IEC 60502-1

Rated voltage: 0.6/1 Kv

Conductor: Annealed copper wire or aluminum

Insulation: PVC

Bedding: PVC

Armour: Galvanized steel tape for multi cores or Aluminum tape for single core.

Sheath: PVC

Max conductor temperature: 70°C

Application: Used in outdoor, in ducts or underground, where mechanical damage is expected.



Cross Section mm ²	Thickness of Insulation mm	Thickness of Tape mm	Thickness of sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/Km	APP. Weight (with AL Conductor) Kg/Km
1 × 50(rm)	1.4	0.5	1.8	19.8	750	442
1 × 70(rm)	1.4	0.5	1.8	21.6	970	538
1 × 95(rm)	1.6	0.5	1.8	13.9	1270	683
1 × 120(rm)	1.6	0.5	1.8	25.5	1530	796
1 × 150(rm)	1.8	0.5	1.9	27.7	1830	918
1 × 185(rm)	2.0	0.5	2.0	30	2240	1095
1 × 240(rm)	2.2	0.5	2.1	33.8	2840	1370
1 × 300(rm)	2.4	0.5	2.2	36.5	3490	1621
1 × 400(rm)	2.6	0.5	2.3	40.2	4400	1986
1 × 500(rm)	2.8	0.5	2.4	44	5100	2425
2 × 1.5(re)	0.8	0.2	1.8	13	260	---
2 × 2.5(rm)	0.8	0.2	1.8	14	300	---
2 × 4(rm)	1.0	0.2	1.8	16	380	---
2 × 6(rm)	1.0	0.2	1.8	17	450	---
2 × 10(rm)	1.0	0.2	1.8	18.9	580	508
2 × 16(rm)	1.0	0.2	1.8	21.0	790	598
2 × 25(rm)	1.2	0.2	1.8	24.8	1080	794
2 × 35(rm)	1.2	0.2	1.8	26.7	1340	944
2 × 50(rm)	1.4	0.2	1.9	30.5	1730	1180
2 × 70(rm)	1.4	0.2	2.0	34.2	2300	1499
2 × 95(rm)	1.6	0.5	2.3	40.8	3100	1947
2 × 120(rm)	1.6	0.5	2.4	43.9	4150	2684
2 × 150(rm)	1.8	0.5	2.6	48.7	4960	3172
2 × 185(rm)	2.0	0.5	2.7	53.5	6100	3822
2 × 240(rm)	2.2	0.5	3	60.8	7640	4824
3 × 1.5(re)	0.8	0.2	1.8	13.8	280	---
3 × 2.5(re)	0.8	0.2	1.8	14.7	330	---
3 × 4(re)	1.0	0.2	1.8	16.5	440	---
3 × 6(re)	1.0	0.2	1.8	17.7	530	---

Note :

rm: Stranded conductor

re: Solid conductor

● Tape armored cables, (PVC insulation, PVC sheath)(NYBY, NAYBY)

Cross Section <i>mm</i> ²	Thickness of Insulation mm	Thickness of Taps mm	Thickness of Sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/Km	APP. Weight (with AL Conductor) Kg/Km
3 × 10(re)	1.0	0.2	1.8	19.8	690	557
3 × 16(rm)	1.0	0.2	1.8	22.2	960	661
3 × 25(rm)	1.2	0.2	1.8	26.0	1330	885
3 × 35(rm)	1.2	0.2	1.9	28.5	1680	1064
3 × 50(sm)	1.4	0.2	1.9	29	1750	1101
3 × 70(sm)	1.4	0.2	2.0	32.8	2400	1372
3 × 95(sm)	1.6	0.2	2.1	38	3200	2087
3 × 120(sm)	1.6	0.5	2.2	39.8	3960	2452
3 × 150(sm)	1.8	0.5	2.3	46.7	5290	2926
3 × 185(sm)	2.0	0.5	2.6	49.2	3450	3517
3 × 240(sm)	2.2	0.5	2.6	56.6	8285	4432
3 × 25/16(rm)	1.2/1.0	0.2	2.9	28	1460	1039
3 × 35/16(rm)	1.2/1.0	0.2	1.9	31.1	1950	1243
3 × 50/25(sm)	1.4/1.2	0.2	2.0	33.1	2250	1298
3 × 70/35(sm)	1.4/1.2	0.5	2.2	36.6	2950	1592
3 × 95/50(sm)	1.6/1.4	0.5	2.3	40	4100	2419
3 × 120/70(sm)	1.6/1.4	0.5	2.5	44	5480	2942
3 × 150/70(sm)	1.8/1.4	0.5	2.6	47.8	6700	3414
3 × 185/95(sm)	2.0/1.6	0.5	2.7	51.8	8100	4033
3 × 240/120(sm)	2.2/1.6	0.2	3.0	59.8	10440	5057
4 × 1.5(re)	0.8	0.2	1.8	14.5	320	---
4 × 2.5(re)	0.8	0.2	1.8	16.1	380	---
4 × 4(re)	1.0	0.2	1.8	18.1	520	---
4 × 6(re)	1.0	0.2	1.8	19.2	720	---
4 × 10(rm)	1.0	0.2	1.8	21.5	940	641
4 × 16(rm)	1.0	0.2	1.8	24.5	1170	768
4 × 25(rm)	1.2	0.2	1.8	28.5	1650	1038
4 × 35(rm)	1.2	0.2	2.0	31	2100	1248
4 × 50(sm)	1.4	0.2	2.1	35	2800	1365
4 × 70(sm)	1.4	0.2	2.2	39	4300	1992
4 × 95(sm)	1.6	0.5	2.3	44	5500	2582
4 × 120(sm)	1.6	0.5	2.5	47	6800	3105
4 × 150(sm)	1.8	0.5	2.6	51	8150	3655
4 × 185(sm)	2.0	0.5	2.8	54	10120	4446
4 × 240(sm)	2.2	0.2	3.0	62	11380	5582
5 × 1.5(re)	0.8	0.2	3.0	15.7	570	---
5 × 2.5(re)	0.8	0.2	1.8	16.8	480	---
5 × 4(re)	1.0	0.2	1.8	19	600	---
5 × 6(rm)	1.0	0.2	1.8	21	770	---
5 × 10(rm)	1.0	0.2	1.8	23.2	1030	733
5 × 16(rm)	1.0	0.2	1.8	26.5	1320	884
5 × 25(rm)	1.2	0.2	1.9	32	1900	1200
5 × 35(rm)	1.2	0.2	2.0	34	2500	1464

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

● Tape armored cables, (XLPE insulation, PVC sheath)(N2XBY, NA2XBY)

Standard: IEC 60228, IEC 60502-1

Rated voltage: 0.6/1 Kv

Conductor: Annealed copper wire or aluminum

Insulation: XPLE

Bedding: PVC

Armour: Galvanized steel tape for multi cores or Aluminum tape for single core.

Sheath: PVC

Max conductor temperature: 90 °C

Application: Used in outdoor, in ducts or underground, where mechanical damage is expected.



Cross Section <i>mm²</i>	Thickness of Insulation mm	Thickness of Taps mm	Thickness of Sheath mm	Mean Overall Dia. mm	APP. Weight (with CU Conductor) Kg/Km	APP. Weight (with AL Conductor) Kg/Km
1 × 50(rm)	1	0.5	1.8	19.2	690	383
1 × 70(rm)	1.1	0.5	1.8	21.3	930	488
1 × 95(rm)	1.1	0.5	1.8	23.2	1200	605
1 × 120(rm)	1.2	0.5	1.8	24.5	1460	720
1 × 150(rm)	1.4	0.5	1.9	27.2	1760	830
1 × 185(rm)	1.6	0.5	1.9	29.5	2150	980
1 × 240(rm)	1.7	0.5	2.0	33	2700	1221
1 × 300(rm)	1.8	0.5	2.1	35.1	3330	1455
1 × 400(rm)	2.0	0.5	2.2	38	4240	1795
1 × 500(rm)	2.2	0.5	2.4	43.2	5180	2178
2 × 1.5(re)	0.7	0.2	1.8	12.5	240	---
2 × 2.5(rm)	0.7	0.2	1.8	13.5	280	---
2 × 4(rm)	0.7	0.2	1.8	14.5	330	---
2 × 6(rm)	0.7	0.2	1.8	16.5	400	---
2 × 10(rm)	0.7	0.2	1.8	17.7	520	436
2 × 16(rm)	0.7	0.2	1.8	20	720	520
2 × 25(rm)	0.9	0.2	1.8	23	995	699
2 × 35(rm)	0.9	0.2	1.8	25.7	1250	840
2 × 50(rm)	1.0	0.2	1.9	29	1580	1031
2 × 70(rm)	1.1	0.2	2.0	33	2180	1357
2 × 95(rm)	1.1	0.2	2.2	38	2850	1712
2 × 120(rm)	1.2	0.2	2.3	42	3940	2427
2 × 150(rm)	1.4	0.5	2.5	47	4700	2898
2 × 185(rm)	1.6	0.5	2.6	52	5800	3509
2 × 240(rm)	1.7	0.5	2.8	58	7260	4404
3 × 1.5(re)	0.7	0.2	1.8	13.7	260	---
3 × 2.5(re)	0.7	0.2	1.8	14.7	310	---
3 × 4(re)	0.7	0.2	1.8	15.5	380	---
3 × 6(re)	0.7	0.2	1.8	17.5	460	---

Note :

rm: Stranded conductor

re: Solid conductor



• Telecommunication and
network cables

● Tape armored cables, (XLPE insulation, PVC sheath)(N2XBY, NA2XBY)

Cross Section	Thickness of Insulation	Thickness of Taps	Thickness of Sheath	Mean Overall Dia.	APP. Weight (with CU Conductor)	APP. Weight (with AL Conductor)
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3 × 10(re)	0.7	0.2	1.8	18.5	620	472
3 × 16(rm)	0.7	0.2	1.8	21	880	569
3 × 25(rm)	0.9	0.2	1.8	25	1230	777
3 × 35(rm)	0.9	0.2	1.9	28	1570	937
3 × 50(sm)	1.0	0.2	1.9	30	1630	905
3 × 70(sm)	1.1	0.2	2.0	33	2260	1177
3 × 95(sm)	1.1	0.5	2.2	37	3020	1485
3 × 120(sm)	1.2	0.5	2.3	41	3750	2143
3 × 150(sm)	1.4	0.5	2.4	45	5000	2581
3 × 185(sm)	1.6	0.5	2.6	50	6180	3091
3 × 240(sm)	1.7	0.5	2.7	54	7900	3883
3 × 25/16(rm)	0.9-0.7	0.2	1.9	26.5	1420	905
3 × 35/16(rm)	0.9-0.7	0.2	1.9	29.5	1900	1455
3 × 50/25(sm)	1.0-0.9	0.2	2.0	31.5	2100	1076
3 × 70/35(sm)	1.1-0.9	0.2	2.1	33.5	2800	1380
3 × 95/50(sm)	1.1-1.0	0.5	2.2	37.0	3800	2068
3 × 120/70(sm)	1.2-1.1	0.5	2.3	39.2	5200	2551
3 × 150/70(sm)	1.4-1.1	0.5	2.5	48	6400	2994
3 × 185/95(sm)	1.6-1.1	0.5	2.7	54.1	7800	3564
3 × 240/120(sm)	1.7-1.2	0.5	2.9	60	9900	4467
4 × 1.5(re)	0.7	0.2	1.8	14.1	290	---
4 × 2.5(re)	0.7	0.2	1.8	15.2	360	---
4 × 4(re)	0.7	0.2	1.8	16.6	440	---
4 × 6(re)	0.7	0.2	1.8	18	630	---
4 × 10(rm)	0.7	0.2	1.8	20.2	580	542
4 × 16(rm)	0.7	0.2	1.8	23	850	654
4 × 25(rm)	0.9	0.2	1.9	27.2	1500	901
4 × 35(rm)	0.9	0.2	1.9	30	1950	1097
4 × 50(sm)	1.0	0.2	2.0	32.1	2660	1126
4 × 70(sm)	1.1	0.5	2.2	37.3	4200	1466
4 × 95(sm)	1.1	0.5	2.2	40.1	5400	2203
4 × 120(sm)	1.2	0.5	2.4	44.2	6700	2747
4 × 150(sm)	1.4	0.5	2.6	49.3	8000	3210
4 × 185(sm)	1.6	0.5	2.7	52.5	9900	3885
4 × 240(sm)	1.7	0.5	2.9	58	12500	4903
5 × 1.5(re)	0.7	0.2	1.8	15.0	380	---
5 × 2.5(re)	0.7	0.2	1.8	16.5	480	---
5 × 4(re)	0.7	0.2	1.8	17.7	590	---
5 × 6(rm)	0.7	0.2	1.8	19.2	730	---
5 × 10(rm)	0.7	0.2	1.8	21.8	1000	616
5 × 16(rm)	0.7	0.2	1.8	24.5	1290	748
5 × 25(rm)	0.9	0.2	1.9	29.5	1860	1034
5 × 35(rm)	0.9	0.2	2.0	32.7	2400	1280

Note :

rm: Stranded conductor

re: Solid conductor

sm: Shaped stranded conductor



● Telephone pair YV

Standard : TCI, VDE

Conductor : Annealed copper

Insulation : PVC

Application : For jumper wire



Electrical Data at 20°C

Operating voltage	Max. Operating Voltage Effective	Conductor/ Wire Diameter	Min. Resistance of Insulation	Max. Resistance of Conductor at 20°C	
DC.V	V	mm	MΩ/Km	MΩ/Km	
				Multi wire	Single wire
1200	500	0.5/0.9	200	95	92.2
2500	900	0.5/1.1	200	95	92.2
2500	900	0.6/1.1	200	66	64.1
2500	900	0.6/1.4	200	66	64.1
2500	900	0.8/1.4	200	36.8	36
2500	900	1.0/1.8	200	23.4	22.9
2500	900	1.4/2.2	200	11.9	11.6
3000	1500	1.8/2.8	200	7.2	7.1

Physical Spec Of (YV)

No of wires x conductor Dia/wire diameter	Thickness of Insulation	External Dia. APP.	APP. Weight
mm	mm	mm	Kg/Km
1 × 0.5/0.9	0.20	0.9	2.5
2 × 0.5/0.9	0.20	1.8	5.0
3 × 0.5/0.9	0.20	2.0	7.5
4 × 0.5/0.9	0.20	2.2	10
1 × 0.5/1.1	0.30	1.1	3.0
2 × 0.5/1.1	0.30	2.2	6.0
1 × 0.6/1.1	0.25	1.1	3.7
2 × 0.6/1.1	0.25	2.2	7.5
3 × 0.6/1.1	0.25	2.4	11
4 × 0.6/1.1	0.25	2.7	15
5 × 0.6/1.1	0.25	3.0	19
1 × 0.6/1.4	0.40	1.4	4.5
2 × 0.6/1.4	0.40	2.8	9.0
3 × 0.6/1.4	0.40	3.0	13.5
4 × 0.6/1.4	0.40	3.4	18
5 × 0.6/1.4	0.40	3.8	23
1 × 0.8/1.4	0.30	1.4	6.0
2 × 0.8/1.4	0.30	2.8	12
1 × 1/1.8	0.40	1.8	10
2 × 1/1.8	0.40	3.6	20
1 × 1.4/2.2	0.40	2.2	17.5
1 × 1.8/2.8	0.50	2.8	28

● Drop wire A-2Y T(self supported tel.wire)

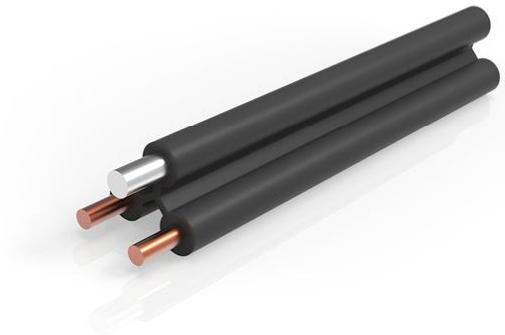
Conductor : Solid annealed copper wire

Insulation : PE

Suspension wire : Solid galvanized steel wire

Standard : TCI, VDE

Application: Self Supported wire for subscriber.



Mechanical Data:

No. of Pairs	Thickness of Insulation	Steel wire Dia.	External Dia APP.	APP. Weight
	mm	mm	mm	Kg/Km
2×0.60	0.8	0.7	4.5×7.0	19
2×0.90	1.0	1.2	5.9×5.9	38

Electrical Data at 20°C

Conductor Dia.	Max. Rr Resistance of Conductor at 20°C	Min. Resistance of Insulation	Max. Mutual capacitance at 800 Hz	Max. Operating Voltage Effective	Test voltage
mm	Ω/Km	MΩ.Km	Nf/Km	V	DC KV
0.60	65	2000	40	100	15
0.90	29	2000	40	100	15

● Telephone cable j-YY

Standard: TCI, VDE

Conductor: Solid annealed copper wire

Insulation: PVC

Sheath: PVC

Application: For telephone laying over and under plaster, laying underground is not permitted.



Electrical Data in 20°C

Test voltage	Max. Operating Voltage Effective	Conductor Diameter	Min. Resistance of Insulation	Max. Resistance of Conductor at 20°C	Max. Mutual Capacitance at 1000 Hz
V	V	mm	MΩ.Km	Ω/Km	Nf/Km
Core to Core 1000	200	0.5	100	90	130
Core to Core 1000	200	0.6	100	65	130

PHYSICAL SPEC OF J-YY 2×0.50 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia. APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.25	1.0	3.8	18.5
2	0.25	1.0	4.2	25.6
3	0.25	1.0	5.1	34.1
4	0.25	1.0	5.5	46.2
5	0.25	1.0	6.0	47.2
6	0.25	1.0	6.2	56.9
10	0.25	1.0	7.3	100
15	0.25	1.0	8.7	130
20	0.25	1.0	9.6	160
25	0.25	1.2	10.8	200
30	0.25	1.2	11.4	230

PHYSICAL SPEC OF J-YY 2×0.60 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia. APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.25	1.0	4.0	21.2
2	0.25	1.0	4.2	28.4
3	0.25	1.0	5.5	40.9
4	0.25	1.0	5.9	49.3
5	0.25	1.0	6.4	57.9
6	0.25	1.0	6.7	74.7
10	0.25	1.0	7.8	120
15	0.25	1.0	9.4	150
20	0.25	1.0	10.4	190
25	0.25	1.2	11.7	240
30	0.25	1.2	12.3	280

● Indoor telephone cable J-Y(st)Y

Standard : TCI, VDE

Conductor : Solid annealed copper wire

Insulation : PVC

Screen: Aluminum foil plus a drain wire

Sheath: PVC

Application : For telephone laying over and under plaster, laying underground is not permitted.



Electrical Data at 20°C

Conductor Dia.	Max. Resistance of Conductor at 20°C	Max. Mutual Capacitance at 800 Hz	Max Capacitance Unbalance at 800 Hz	Min. Resistance of Insulation	Max. Operating Voltage Effective	Test voltage
mm	Ω/Km	NF/Km	PF/500m	MΩ.Km	V	DC V
0.50	97.8					
0.60	65	120	400	500	200	core to core 700
0.80	36					core to shield 2000

PHYSICAL SPEC OF 2×0.50 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.20	1.0	4.5	22.7
2	0.20	1.0	4.9	29.5
4	0.20	1.0	6.2	45.7
6	0.20	1.0	6.7	52.5
10	0.20	1.0	6.9	74
12	0.20	1.0	8.0	88.7
15	0.20	1.0	8.5	94.4
20	0.20	1.0	9.2	115.6
25	0.20	1.0	10.2	145.2
30	0.20	1.2	12.1	240
50	0.20	1.4	15.5	400
100	0.20	1.5	24	740

PHYSICAL SPEC OF 2×0.60 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.25	1.0	5	29
2	0.25	1.0	5.5	45.2
4	0.25	1.0	6.8	58.8
6	0.25	1.0	7.8	76.1
10	0.25	1.0	9.2	83.4
12	0.25	1.0	10.2	127.3
15	0.25	1.0	11.5	147
20	0.25	1.0	13	160.5
25	0.25	1.0	15	232.8
30	0.25	1.2	16	290
50	0.25	1.4	18	460
100	0.25	1.5	30	910

PHYSICAL SPEC OF 2×0.80 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.40	1.0	6.0	55
2	0.40	1.0	7.0	97
4	0.40	1.0	8.0	110
6	0.40	1.0	9.3	128
10	0.40	1.0	11.2	192
12	0.40	1.2	12.7	234
15	0.40	1.2	13.4	282
20	0.40	1.2	15.0	262
25	0.40	1.2	17.0	455
30	0.40	1.2	18.0	502
50	0.40	1.4	22.7	820
100	0.40	1.5	37	1600

● Telephone subscriber cable A-2Y(st)2Y

Standard: TCI, VDE

Conductor: Solid annealed copper wire

Insulation: PE

Screen: Aluminum foil plus a drain wire

Sheath: PE

Application: For indoor and outdoor over the walls. In conduits and ducts where mechanical damage is not expected.

Electrical Data at 20°C

Conductor Dia.	Max. Resistance of Conductor at 20°C	Max. Mutual Capacitance at 800 Hz	Max. Capacitance Unbalance at 800 Hz	Min. Resistance of Insulation	Max. Operating Voltage Effective	Attenuation		Test voltage
						Db/Km		
mm	Ω/Km	Nf/Km	PF/500m	MΩ.Km	V	1024KHz	1500KHz	DC V
0.60	65	52 ± 4	181	20	150	19.5	24	Core to Core 3.5 Core to Shield 5.0

PHYSICAL SPEC OF 2×0.60 mm

No. of Pairs	Thickness of Insulation	Thickness of Sheath	External Dia.APP.	APP. Weight
	mm	mm	mm	Kg/Km
1	0.25	1.0	4.8	22
2	0.25	1.0	5.9	32
4	0.25	1.0	6.6	50
5	0.25	1.0	7.0	55
6	0.25	1.0	7.5	70
8	0.25	1.2	8.2	83
10	0.25	1.4	8.9	100
15	0.25	1.4	10.7	140
20	0.25	1.4	11.9	195
25	0.25	1.4	12.7	220
30	0.25	1.6	14.5	270
50	0.25	1.8	18.0	435
100	0.25	2.0	24.5	822



● Telecommunication cable (PE insulation , PVC sheath)

Standard: TCI, VDE 0815, ASTM D4565

Rated Voltage: 200V

Conductor: Solid annealed copper wire, ccam
(copper clad aluminum magnesium wire)

Insulation: PE

Screen: aluminum foil plus a drain wire

Sheath: PVC

Application: For Telephone and signal transmits direct laying in doors on or under plaster and outdoors.

Under ground is not permissible.



No. of Pairs	Thickness of Insulation	Thickness of Sheath	Max. Resistance of Conductor at 20 °C		Resistance of Insulation	Mutual Capacitance At 1000 HZ	Dielectric Strength (2 minutes)	
	mm	mm	Ω/Km 0.6mm	Ω/Km 0.4mm	MΩ.Km	Nf/Km	One Core to with all other (AC V)	Core to Shield (AC V)
2	0.25	0.8	62	139	500	100	500	500
4	0.25	0.8	62	139	500	100	500	500
6	0.25	1	62	139	500	100	500	500
8	0.25	1	62	139	500	100	500	500
10	0.25	1	62	139	500	100	500	500
20	0.25	1.1	62	139	500	100	500	1000
30	0.25	1.2	62	139	500	100	500	1000
40	0.25	1.3	62	139	500	100	500	1000
50	0.25	1.3	62	139	500	100	500	2000
70	0.25	1.5	62	139	500	100	500	2000
100	0.25	1.8	62	139	500	100	500	2000
150	0.25	1.8	62	139	500	100	500	2000
200	0.25	1.8	62	139	500	100	500	2000

● High frequency coaxial cable (RG)

Standards: MIL-C-17, JIS 3501

Conductor: copper

Insulation: Foamed PE or PE

Shield: Braided copper or copper clad aluminium (CCA)

Sheathed: PVC

Application: Connection For TV Antenna and General Purposes Transmission of RF Signals.



Type of Cable	Inner Conductor Dia.	Thickness of Insulation	No. of Shield Braiding	Thickness of Sheath	Mean Overall Dia.	APP. Weight	Capacitance	Attenuation	Impedance	Test Voltage
---	mm	mm	mm	mm	mm	Kg/Km	Nf/Km	Db/Km	MΩ	V(rms)
RG11/U	7 × 0.40	3	192 × 0.18	1.1	10.1-10.2	136	67 ± 3	75	75 ± 3	2000
RG6/U	1 × 1.02	1.8	128 × 0.12	0.8	6.9-7.1	59	67 ± 3	69	75 ± 3	2000
RG59/U	1 × 0.60	1.5	120 × 0.12	0.9	5.8-6.4	46	67 ± 3	52	75 ± 3	2000
RG58A/U	19 × 0.18	1.40	112 × 0.12	0.8	4.90-5.10	40	67 ± 3	75	75 ± 3	2000
1.5D-2V	7 × 0.18	0.53	80 × 0.1	0.4	2.9	14	104 ± 5	85	50 ± 2	300
2.5D-2V	1 × 0.8	0.95	112 × 0.1	0.5	4.3	35	100 ± 5	45	50 ± 2	1000
3D-2V	7 × 0.32	1.02	120 × 0.14	0.8	5.3	44	100 ± 4	47	50 ± 2	1000
5D-2V	1 × 1.4	1.7	168 × 0.14	0.9	7.3	80	100 ± 4	27	50 ± 2	1000
5D-2W	1 × 1.4	1.7	168 × 0.14	0.9	8.0	110	100 ± 4	27	50 ± 2	1000
8D-2V	7 × 0.8	2.7	192 × 0.14	1.2	11.1	180	100 ± 4	20	50 ± 2	1000
2.5C-2V	1 × 0.4	1.0	96 × 0.12	0.5	4.0	25	69 ± 4	52	75 ± 3	1000
3C-2V	1 × 0.5	1.3	120 × 0.14	0.8	5.4	45	67 ± 3	42	75 ± 3	1000
4.5C-2V	1 × 0.95	2.0	64 × 0.15	0.9	6.5	65	---	---	75 ± 3	1000
5C-2V	1 × 1.02	1.75	168 × 0.14	0.9	6.5	45	67 ± 3	27	75 ± 3	1000
7C-2V	7 × 0.4	3.05	192 × 0.18	1.1	10.4	140	67 ± 3	22	75 ± 3	1000
10C-2V	7 × 0.5	3.95	240 × 0.2	1.3	13.0	220	67 ± 3	18	75 ± 3	1000



Self-supporting drop cables
and ACSR self - aluminum wire

● **Aluminum conductor steel reinforced (ACSR)**

Standard: BS215, DIN 48204

Rated Voltage: 20 Kv or 33 Kv

Conductor: Aluminum

Supporter: Galvanized Steel

Application: Typically used in aerial applications where spans are very long and electrical loads are light.



Code Name	Nominal cross section			Construction		Overall dia.	APP.Weight			Max. Resistance of Conductor at 20°C	Nominal breaking load	Current Capacity		Zinc coating	Standard
	AL	ST	ALL	AL	ST		AL	ST	ALL			Usual	Tropical		
-	mm ²	mm ²	mm ²	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Ω/Km	N	A	A	Gr/m ²	-
Weasel	31.61	5.27	36.99	6 × 2.59	1 × 2.59	7.77	87	41	128	0.9077	11400	134	84	240	BS215
Fox	36.66	6.11	42.77	6 × 2.79	1 × 2.79	8.37	101	48	149	0.7827	13200	147	93	240	BS215
Ferret	42.41	7.04	49.48	6 × 3	1 × 3	9	117	55	172	0.6766	15200	161	98	260	BS215
Mink	63.18	10.53	73.71	6 × 3.66	1 × 3.66	10.98	173	83	257	0.4541	21800	174	103	260	BS215
Dog	105	13.5	118.5	6 × 4.72	7 × 1.57	14.15	288	106	394	0.2733	32700	278	153	200	BS215
Cat	95.4	15.9	111.3	6 × 4.50	1 × 4.50	13.5	260.2	125.3	385.5	0.3008	32700	248	145	200	BS215
Hyena	105.8	20.44	126.2	7 × 4.39	7 × 1.93	14.57	289	161	450	0.2712	40900	287	155	238-256	BS215
Curlew	523	67.87	591	54.3.52	7 × 3.52	31.68	1448	535	1983	0.05531	165061	715	177	215	BS215
LYNX	183.4	42.77	226.2	30.2.79	7 × 2.79	19.53	505	340	845	0.1576	79800	386	178	238-256	BS215
185/30	183.8	29.8	213.6	26 × 3	7 × 2.23	19	507	239	746	0.1571	6620	386	185	208-235	DIN 48204
210/35	210	35	245	26 × 3.2	7 × 2.5	20.3	577	273	850	0.1380	7490	418	193	208-235	DIN 48204
95/15	94.4	15.3	109.7	26 × 2.15	7 × 1.67	13.6	260	123	383	0.3058	3575	260	145	200	DIN 48204

● ACSR covered conductor (CCX)

Standard: EN 50397

Rated Voltage: 20 Kv or 33 Kv

Conductor: Aluminum

Supporter: Galvanized Steel

Insulation: UV resistant XLPE



Code Name	Nominal cross section			Construction		Overall dia.	APP.Weight			Max. Resistance of Conductor at 20°C	Nominal breaking load	Current Capacity at 20 °C
	AL	ST	ALL	AL	ST		AL	ST	ALL			
-	mm ²	mm ²	mm ²	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Ω/ Km	N	A
MINK	63.18	10.53	73.71	6 × 3.66	1 × 3.66	10.2	160	83	243	0.4767	20590	291
Wolf	158	37	195	30×2.59	7×2.59	16.86	435	291	726	0.1920	65460	543
HYENA	105.8	20.5	126.3	7 × 4.39	7 × 1.93	13.55	267	161	428	0.2843	38800	414

Code Name	Thickness of Insulation 20 Kv	Thickness of Insulation 33 Kv	Overall Dia. 20 Kv	Overall Dia. 33 Kv	APP. Weight 20 Kv	APP. Weight 33 Kv
-	mm	mm	mm	mm	Kg/Km	Kg/Km
MINK	2.3	3.6	14.8	17.4	333	400
Wolf	2.3	3.6	21.5	24.1	831	923
HYENA	2.3	3.6	18.2	20.8	546	625

● Aerial bundled conductors (ABC) - Two cores

Standard: NFC 33-209, HD621

Rated Voltage: 0.6/1 Kv

Phase conductor: Stranded aluminum (class2)

Neutral conductor: Stranded aluminum (class 2)

Insulation: Black UV resistant XLPE



Size		Conductor Construction				Thickness of Insulation			Overall diameter	APP.Weight	Breaking load
Nominal Cross Section	Phase	Neutral	lighting	Support AAAC	Phase	Neutral	lighting	Support AAAC			
mm ²	No. × mm				mm				mm	Kg/Km	N
1 × 16 + 16	7 × 1.72	7 × 1.72	---	---	1.2	1.2	---	---	14	120	16000
1 × 25 + 25	7 × 2.2	7 × 2.2	---	---	1.4	1.4	---	---	17	182	17500
1 × 35 + 35	7 × 2.6	7 × 2.6	---	---	1.6	1.6	---	---	20	245	19000

Aerial bundled conductors (ABC) with aluminium alloy neutral carrier - Five cores

Standard: NFC 33-209, HD621

Rated Voltage: 0.6/1 Kv

Phase/lighting conductor: Stranded aluminum (class2)

Neutral carrier: Stranded aluminum alloy (AAAC)

Insulation: Black UV resistant XLPE



Size		Conductor Construction				Thickness of Insulation			Overall diameter	APP. Weight	Breaking load
Nominal Cross Section	Phase	Neutral	Lighting	Neutral carrier AAAC	Phase	Neutral	lighting	Neutral carrier AAAC			
mm ²	No. × mm				mm				mm	Kg/Km	N
3 × 35 + 16 + 50	7 × 2.6	---	7 × 1.72	7 × 3.15	1.6	---	1.2	1.6	27.0	653	36000
3 × 50 + 16 + 50	7 × 3	---	7 × 1.72	7 × 3.15	1.6	---	1.2	1.6	29.0	767	40000
3 × 70 + 16 + 70	19 × 2.2	---	7 × 1.72	7 × 3.61	1.8	---	1.2	1.6	33	1020	57000
3 × 70 + 25 + 70	19 × 2.2	---	7 × 2.2	7 × 3.61	1.8	---	1.4	1.6	33.8	1050	58000
3 × 95 + 16 + 70	19 × 2.6	---	7 × 1.72	7 × 3.61	1.8	---	1.2	1.6	42	1245	94000
3 × 95 + 25 + 70	19 × 2.6	---	7 × 2.2	7 × 3.61	1.8	---	1.4	1.6	44	1362	96000
3 × 120 + 25 + 70	19 × 2.83	---	7 × 2.2	7 × 3.61	1.8	---	1.4	1.6	46	1575	115000

Aerial bundled conductors (ABC)

with Galvanized steel messenger - Six cores

Standard: NFC 33-209, HD621

Rated voltage: 0.6/1 Kv

Phase / lighting conductor: Stranded aluminum (class2)

Neutral conductor: Stranded aluminum (class 2)

Insulation: Black UV resistant XLPE

Messenger: Stranded galvanized steel wires

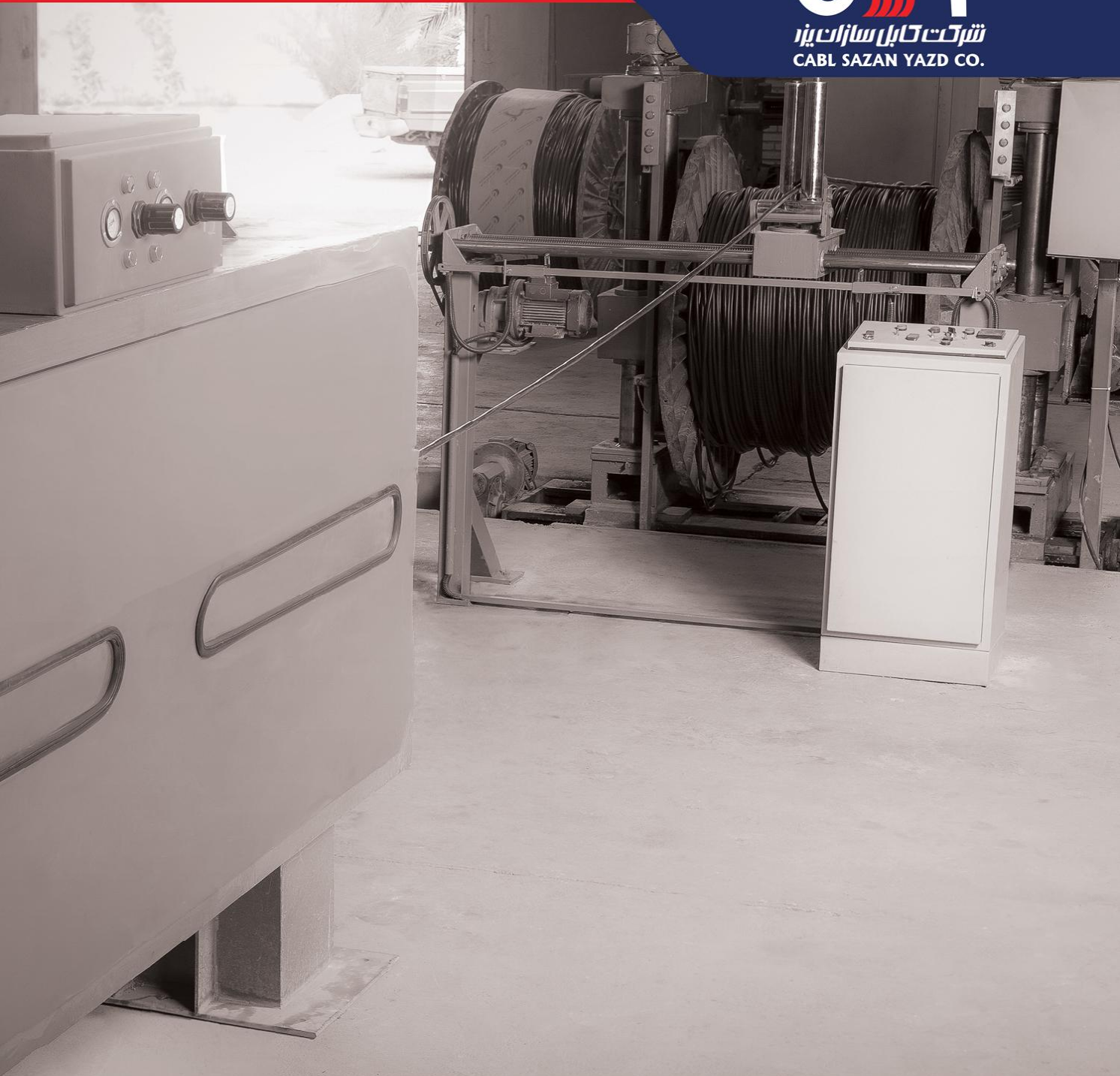
Insulation of messenger: Black UV resistant XLPE



Size	Conductor Construction				Thickness of Insulation				APP.Weight	Brreaking load (Min.)
Nominal Cross Section	Phase	Neutral	lighting	Steel Support	Phase	Neutral	lighting	Steel Support		
mm ²	No. × mm				mm				Kg/Km	N
3×25+25+16+16	7×2.2	7×2.2	7×1.72	7×1.57	1.4	1.4	1.2	1.2	581	18025
3×35+35+25+25	7×2.6	7×2.6	7×2.2	7×1.93	1.6	1.6	1.4	1.2	806	27240
3×50+50+25+25	7×3	7×3	7×2.2	7×1.93	1.6	1.6	1.4	1.2	964	27240
3×70+70+25+25	19×2.2	19×2.2	7×2.2	7×1.93	1.8	1.8	1.4	1.2	1259	27240
3×95+95+25+25	19×2.6	19×2.6	7×2.2	7×1.93	1.8	1.8	1.4	1.2	1619	27240
3×120+120+25+25	19×2.83	19×2.83	7×2.2	7×1.93	1.8	1.8	1.4	1.2	1896	27240
1×25+25+16+16	7×2.2	7×2.2	7×1.72	7×1.57	1.4	1.4	1.2	1.2	397	18025
1×35+35+16+25	7×2.6	7×2.6	7×1.72	7×1.93	1.6	1.6	1.2	1.2	469	27240
1×16+16+16	7×1.72	7×1.72	---	7×1.57	1.2	1.2	--	1.2	262	18025
1×25+25+16	7×2.2	7×2.2	---	7×1.57	1.4	1.4	---	1.2	329	18025



شرکت کابل سازان یزد
CABL SAZAN YAZD CO.



● Control and instrumentation cables

● Unscreened flexible control cables (NYSLY- O,NYSLY- J)

Standard: IEC 60228, IEC 60227-7

Rated voltage: 300/500 V

Conductor: Annealed flexible copper wire

Insulation: PVC

Sheath: PVC

Max conductor temperature: 70°C

Application: In dry or damp places for mobile devices. Not permitted for underground.



Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
3 × 0.5	0.6	0.8	6.2	59
4 × 0.5	0.6	0.8	6.7	71
5 × 0.5	0.6	0.8	7.3	87
7 × 0.5	0.6	1.0	8.3	112
12 × 0.5	0.6	1.2	11.2	198
18 × 0.5	0.6	1.2	12.9	269
25 × 0.5	0.6	1.5	15.6	384
34 × 0.5	0.6	1.8	18.3	528
50 × 0.5	0.6	1.8	21.3	723
60 × 0.5	0.6	1.8	22.5	830
3 × 0.75	0.6	0.8	6.8	71
4 × 0.75	0.6	0.8	7.4	86
5 × 0.75	0.6	1.0	8.5	112
7 × 0.75	0.6	1.0	9.2	137
12 × 0.75	0.6	1.2	12.4	243
18 × 0.75	0.6	1.3	14.4	336
25 × 0.75	0.6	1.5	17.4	480
34 × 0.75	0.6	1.8	20.4	659
50 × 0.75	0.6	1.8	23.8	905
60 × 0.75	0.6	2.1	25.8	1082

● **Unscreened flexible control cables (NYSLY- O,NYSLY- J)**

Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	APP. Weight
mm ²	mm	mm	mm	Kg/Km
2 × 1	0.6	0.8	6.6	66.2
3 × 1	0.6	0.8	7.0	82
4 × 1	0.6	0.9	7.8	100
5 × 1	0.6	1.0	8.8	135
7 × 1	0.6	1.0	9.5	159
12 × 1	0.6	1.4	12.8	283
18 × 1	0.6	1.4	15.5	414
25 × 1	0.6	1.8	18.6	584
34 × 1	0.6	1.8	21.1	766
50 × 1	0.6	2.1	25.2	1095
60 × 1	0.7	2.1	26.7	1267
2 × 1.5	0.7	0.8	7.6	90.7
3 × 1.5	0.7	0.9	8.3	110.8
4 × 1.5	0.7	0.9	9.2	138.7
5 × 1.5	0.7	1.0	10.1	179
7 × 1.5	0.7	1.2	11.4	230
12 × 1.5	0.7	1.3	15.0	386
18 × 1.5	0.7	1.5	18	568
25 × 1.5	0.7	1.8	21.6	794
34 × 1.5	0.7	1.8	24.6	1050
41 × 1.5	0.7	2.1	28.2	1349
50 × 1.5	0.7	2.1	29.4	1500
60 × 1.5	0.7	2.2	31.1	1743
3 × 2.5	0.8	1.0	10	175
4 × 2.5	0.8	1.1	11.3	224
5 × 2.5	0.8	1.1	12.0	286
7 × 2.5	0.8	1.2	13.5	339
12 × 2.5	0.8	1.5	18.4	608
14 × 2.5	0.8	1.8	19.9	700
18 × 2.5	0.8	1.8	22.1	879
25 × 2.5	0.8	1.8	24.0	1100
34 × 2.5	0.8	1.8	28.6	1360
41 × 2.5	0.8	2.1	33.0	1650
50 × 2.5	0.8	2.1	34.4	1980
60 × 2.5	0.8	2.2	35.1	2250

● Unscreened inflexible control cables

Standard: IEC 60502, VDE 0271

Rated Voltage: 0.6/1 Kv

Conductor: Annealed Copper Conductors (Class 2 or 1)

Insulation: PVC

Sheath: PVC

Application: For fixed installation in damp places, indoors, outdoors, under ground where mechanical damage is not expected.



Noinal Cross Section	Thickness of Insulation	Thickness of Sheath	Mean Overall Dia.	Max. Resistance of Conductor at 20°C	APP. Weight
N × mm ²	mm	mm	mm	Ω/Km	Kg/Km
7 × 1.5	0.8	1.8	13	12.1	255
10 × 1.5	0.8	1.8	16.2	12.1	332
12 × 1.5	0.8	1.8	16.6	12.1	385
14 × 1.5	0.8	1.8	17.5	12.1	435
16 × 1.5	0.8	1.8	18.2	12.1	482
19 × 1.5	0.8	1.8	19.4	12.1	550
21 × 1.5	0.8	1.8	20.1	12.1	600
24 × 1.5	0.8	1.8	22.4	12.1	675
30 × 1.5	0.8	1.8	24.5	12.1	814
40 × 1.5	0.8	1.8	26.5	12.1	1085
7 × 2.5	0.8	1.8	15	7.41	340
10 × 2.5	0.8	1.8	18.5	7.41	480
12 × 2.5	0.8	1.8	19.5	7.41	545
14 × 2.5	0.8	1.8	20.5	7.41	615
16 × 2.5	0.8	1.8	21.3	7.41	700
19 × 2.5	0.8	1.8	22.2	7.41	800
21 × 2.5	0.8	1.8	23.5	7.41	875
24 × 2.5	0.8	1.8	26.5	7.41	980
30 × 2.5	0.8	1.8	28	7.41	1150
40 × 2.5	0.8	1.8	31	7.41	1500

Overall screened instrument cable (Multi cores, twisted pairs or triads), RE-Y(st)Y, RE-2X(st)Y

Standard: EN50288-7

Rated Voltage: 500 V

Conductor: Annealed Copper Conductors (Class 5, 2 or 1)

Insulation: PVC or XLPE

Overall screen: Aluminum laminated to polyester tape plus a drain wire

Sheath: PVC

Application: used for connecting instruments and electrical equipment especially in plants where process control is required.

Overall screen cables most used for digital signals.



Noinal Cross Section	Conductor Dia.	Thickness of Insulation	Core Dia.	Thickness of Sheath	Overall Dia.	APP.Weight (PVC Insulation)	APP.Weight (XLPE Insulation)
$N \times mm^2$	mm	mm	mm	mm	mm	Kg/Km	Kg/Km
1x2x0.5	0.9	0.6	2.1	0.9	6.2	47	43
2x2x0.5	0.9	0.6	2.1	0.9	8.9	77	70
3x2x0.5	0.9	0.6	2.1	1	9.6	102	91
4x2x0.5	0.9	0.6	2.1	1	10.5	124	110
5x2x0.5	0.9	0.6	2.1	1	11.5	147	130
6x2x0.5	0.9	0.6	2.1	1.1	12.7	176	156
7x2x0.5	0.9	0.6	2.1	1.1	12.7	194	170
8x2x0.5	0.9	0.6	2.1	1.1	14.3	221	193
9x2x0.5	0.9	0.6	2.1	1.1	16.2	249	218
10x2x0.5	0.9	0.6	2.1	1.2	16.4	275	241
12x2x0.5	0.9	0.6	2.1	1.2	16.9	313	273
16x2x0.5	0.9	0.6	2.1	1.2	18.8	396	342
19x2x0.5	0.9	0.6	2.1	1.3	20.0	465	401
25x2x0.5	0.9	0.6	2.1	1.4	23.7	605	521
30x2x0.5	0.9	0.6	2.1	1.4	25.1	704	603
35x2x0.5	0.9	0.6	2.1	1.5	27.3	820	702
40x2x0.5	0.9	0.6	2.1	1.5	28.4	917	782
50x2x0.5	0.9	0.6	2.1	1.6	32.4	1138	970
1x2x0.75	1.1	0.6	2.3	0.9	6.6	54	51
2x2x0.75	1.1	0.6	2.3	1	9.7	96	89
3x2x0.75	1.1	0.6	2.3	1	10.3	123	112
4x2x0.75	1.1	0.6	2.3	1	11.3	151	137
5x2x0.75	1.1	0.6	2.3	1.1	12.6	187	168
6x2x0.75	1.1	0.6	2.3	1.1	13.7	217	194
7x2x0.75	1.1	0.6	2.3	1.1	13.7	240	214
8x2x0.75	1.1	0.6	2.3	1.1	15.4	274	244
9x2x0.75	1.1	0.6	2.3	1.2	17.7	317	284
10x2x0.75	1.1	0.6	2.3	1.2	17.7	341	304
12x2x0.75	1.1	0.6	2.3	1.2	18.3	392	347
16x2x0.75	1.1	0.6	2.3	1.3	20.5	509	448
19x2x0.75	1.1	0.6	2.3	1.3	21.7	587	515
25x2x0.75	1.1	0.6	2.3	1.5	25.8	778	684
30x2x0.75	1.1	0.6	2.3	1.5	27.4	908	795
35x2x0.75	1.1	0.6	2.3	1.6	29.8	1057	925
40x2x0.75	1.1	0.6	2.3	1.6	31.0	1184	1033
50x2x0.75	1.1	0.6	2.3	1.7	35.3	1471	1282

On The Power Line...

**Overall screened instrument cable (Multi cores, twisted pairs or triads),
RE-Y(st)Y, RE-2X(st)Y**

Noinal Cross Section	Conductor Dia.	Thickness of Insulation	Core Dia.	Thickness of Sheath	Overall Dia.	APP.Weight (PVC Insulation)	APP.Weight (XLPE Insulation)
$N \times mm^2$	mm	mm	mm	mm	mm	Kg/Km	Kg/Km
1×2×1	1.3	0.6	2.5	0.9	7.0	62	58
2×2×1	1.3	0.6	2.5	1	10.4	112	104
3×2×1	1.3	0.6	2.5	1	11.0	145	132
4×2×1	1.3	0.6	2.5	1	12.1	180	163
5×2×1	1.3	0.6	2.5	1.1	13.5	222	201
6×2×1	1.3	0.6	2.5	1.1	14.7	259	233
7×2×1	1.3	0.6	2.5	1.1	14.7	288	259
8×2×1	1.3	0.6	2.5	1.2	16.7	336	303
9×2×1	1.3	0.6	2.5	1.2	19.0	380	342
10×2×1	1.3	0.6	2.5	1.2	19.0	410	367
12×2×1	1.3	0.6	2.5	1.3	19.8	482	431
16×2×1	1.3	0.6	2.5	1.3	22.1	615	548
19×2×1	1.3	0.6	2.5	1.4	23.5	724	643
25×2×1	1.3	0.6	2.5	1.5	27.8	944	838
30×2×1	1.3	0.6	2.5	1.6	29.7	1118	991
35×2×1	1.3	0.6	2.5	1.6	32.1	1286	1138
40×2×1	1.3	0.6	2.5	1.7	33.6	1460	1291
50×2×1	1.3	0.6	2.5	1.8	38.3	1813	1601
1×2×1.5	1.6	0.6	2.8	0.9	7.6	76	71
2×2×1.5	1.6	0.6	2.8	1	11.4	140	130
3×2×1.5	1.6	0.6	2.8	1	12.1	185	170
4×2×1.5	1.6	0.6	2.8	1.1	13.5	238	219
5×2×1.5	1.6	0.6	2.8	1.1	14.8	287	262
6×2×1.5	1.6	0.6	2.8	1.2	16.4	343	314
7×2×1.5	1.6	0.6	2.8	1.2	16.4	384	350
8×2×1.5	1.6	0.6	2.8	1.2	18.4	438	399
9×2×1.5	1.6	0.6	2.8	1.3	21.2	505	460
10×2×1.5	1.6	0.6	2.8	1.3	21.2	546	497
12×2×1.5	1.6	0.6	2.8	1.3	21.9	632	573
16×2×1.5	1.6	0.6	2.8	1.4	24.6	825	746
19×2×1.5	1.6	0.6	2.8	1.5	26.2	970	877
25×2×1.5	1.6	0.6	2.8	1.6	31.0	1265	1143
30×2×1.5	1.6	0.6	2.8	1.7	33.0	1501	1354
35×2×1.5	1.6	0.6	2.8	1.8	35.9	1746	1575
40×2×1.5	1.6	0.6	2.8	1.8	37.4	1964	1768
50×2×1.5	1.6	0.6	2.8	2	42.8	2460	2215
1×2×2.5	2	0.6	3.2	0.9	8.4	99	93
2×2×2.5	2	0.6	3.2	1.1	12.9	191	180
3×2×2.5	2	0.6	3.2	1.1	13.7	256	239
4×2×2.5	2	0.6	3.2	1.2	15.2	331	308
5×2×2.5	2	0.6	3.2	1.2	16.8	401	372
6×2×2.5	2	0.6	3.2	1.3	18.5	480	445
7×2×2.5	2	0.6	3.2	1.3	18.5	540	500
8×2×2.5	2	0.6	3.2	1.4	21.1	626	580
9×2×2.5	2	0.6	3.2	1.4	24.0	707	655
10×2×2.5	2	0.6	3.2	1.5	24.2	779	721
12×2×2.5	2	0.6	3.2	1.5	25.0	905	836
16×2×2.5	2	0.6	3.2	1.6	28.1	1182	1089
19×2×2.5	2	0.6	3.2	1.7	29.8	1389	1279
25×2×2.5	2	0.6	3.2	1.8	35.3	1813	1668
30×2×2.5	2	0.6	3.2	1.9	37.6	2151	1977
35×2×2.5	2	0.6	3.2	2	40.9	2501	2299
40×2×2.5	2	0.6	3.2	2.1	42.8	2839	2607
50×2×2.5	2	0.6	3.2	2.3	48.9	3549	3259



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Individual and overall screened instrument cable

(Multi cores, twisted pairs or triads), RE-Y(st)Y, RE-2X(st)Y

Standard: EN50288-7

Rated Voltage: 500 V

Conductor: Annealed Copper Conductors (Class 5, 2 or 1)

Insulation: PVC or XLPE

Individual screen: Each pair/triad would be screened by aluminum laminated to polyester tape plus a drain wire

Overall screen: Aluminum laminated to polyester tape plus a drain wire

Sheath: PVC

Application: Used for connecting instruments and electrical equipment especially in plants where process control is required. Individual & overall screen cables most used for analog signals.

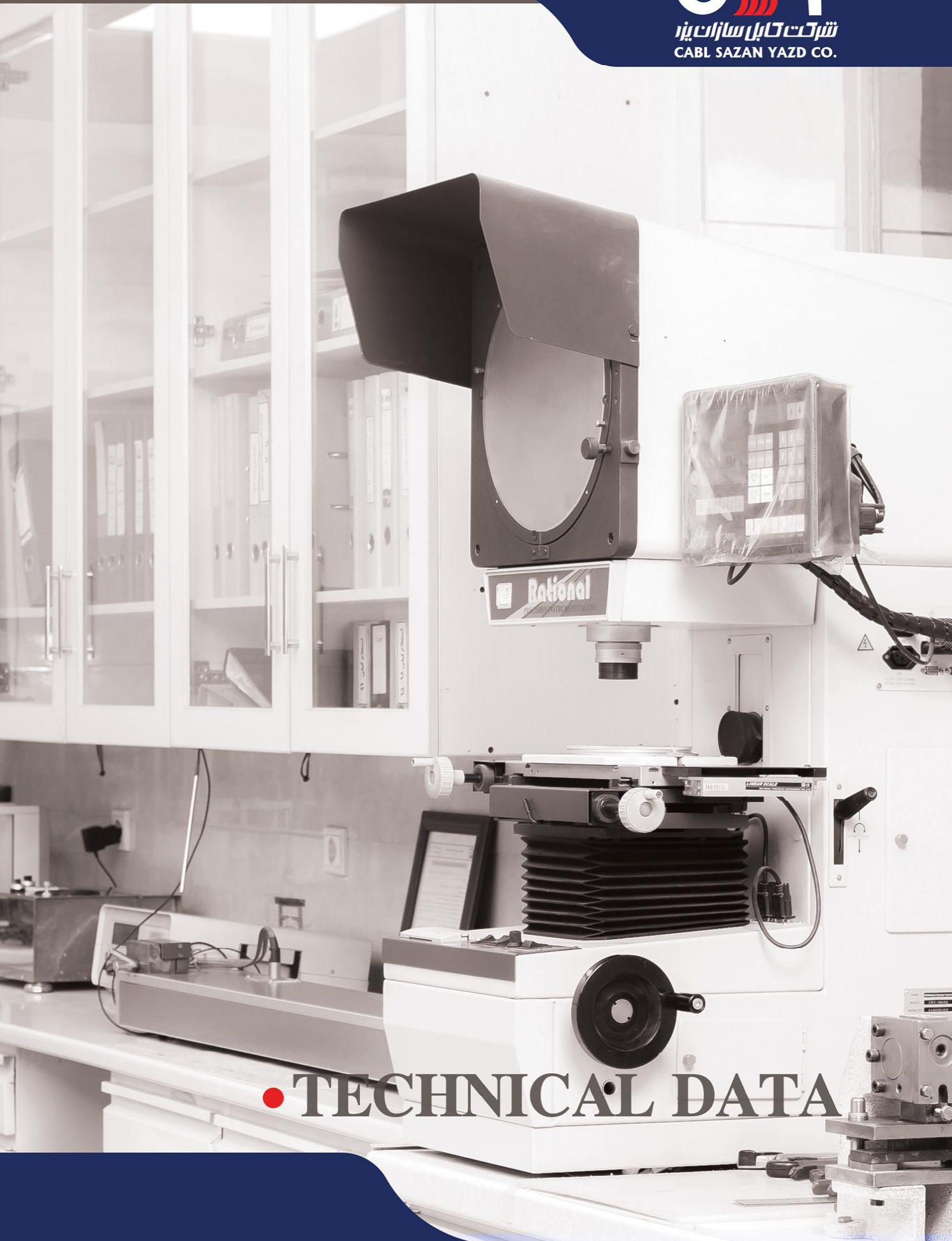


Noinal Cross Section	Conductor Dia.	Thickness of Insulation	Core Dia.	Thickness of Sheath	Overall Dia.	APP.Weight (PVC Insulation)	APP.Weight (XLPE Insulation)
$N \times mm^2$	mm	mm	mm	mm	mm	Kg/Km	Kg/Km
2x2x0.5	0.9	0.6	2.1	1	10.4	107	100
3x2x0.5	0.9	0.6	2.1	1	11.0	137	127
4x2x0.5	0.9	0.6	2.1	1	12.1	170	156
5x2x0.5	0.9	0.6	2.1	1.1	13.5	221	204
6x2x0.5	0.9	0.6	2.1	1.1	14.7	266	246
7x2x0.5	0.9	0.6	2.1	1.1	14.7	270	247
8x2x0.5	0.9	0.6	2.1	1.2	16.7	322	295
9x2x0.5	0.9	0.6	2.1	1.2	19.0	380	350
10x2x0.5	0.9	0.6	2.1	1.3	19.2	392	359
12x2x0.5	0.9	0.6	2.1	1.3	19.8	451	410
16x2x0.5	0.9	0.6	2.1	1.3	22.0	585	532
19x2x0.5	0.9	0.6	2.1	1.4	23.5	674	610
25x2x0.5	0.9	0.6	2.1	1.5	27.8	878	795
30x2x0.5	0.9	0.6	2.1	1.6	29.6	1040	940
35x2x0.5	0.9	0.6	2.1	1.7	32.3	1257	1139
40x2x0.5	0.9	0.6	2.1	1.7	33.5	1362	1228
50x2x0.5	0.9	0.6	2.1	1.8	38.2	1729	1562
2x2x0.75	1.1	0.6	2.3	1	11.1	123	116
3x2x0.75	1.1	0.6	2.3	1	11.8	160	149
4x2x0.75	1.1	0.6	2.3	1.1	13.1	206	190
5x2x0.75	1.1	0.6	2.3	1.1	14.4	260	241
6x2x0.75	1.1	0.6	2.3	1.2	16.0	323	300
7x2x0.75	1.1	0.6	2.3	1.2	16.0	328	302
8x2x0.75	1.1	0.6	2.3	1.2	18.0	381	351
9x2x0.75	1.1	0.6	2.3	1.3	20.6	460	426
10x2x0.75	1.1	0.6	2.3	1.3	20.6	465	427
12x2x0.75	1.1	0.6	2.3	1.3	21.3	537	491
16x2x0.75	1.1	0.6	2.3	1.4	23.9	711	651
19x2x0.75	1.1	0.6	2.3	1.5	25.5	819	747
25x2x0.75	1.1	0.6	2.3	1.6	30.1	1067	972
30x2x0.75	1.1	0.6	2.3	1.7	32.1	1264	1150
35x2x0.75	1.1	0.6	2.3	1.8	35.0	1525	1393
40x2x0.75	1.1	0.6	2.3	1.8	36.3	1656	1505
50x2x0.75	1.1	0.6	2.3	2	41.6	2122	1932

Individual and overall screened instrument cable

(Multi cores, twisted pairs or triads), RE-Y(st)Y, RE-2X(st)Y

Noinal Cross Section	Conductor Dia.	Thickness of Insulation	Core Dia.	Thickness of Sheath	Overall Dia.	APP.Weight (PVC Insulation) Kg/Km	APP.Weight (XLPE Insulation) Kg/Km
$N \times mm^2$	mm	mm	mm	mm	mm		
2x2x1	1.3	0.6	2.5	1	11.8	140	131
3x2x1	1.3	0.6	2.5	1.1	12.7	189	177
4x2x1	1.3	0.6	2.5	1.1	14.0	236	219
5x2x1	1.3	0.6	2.5	1.1	15.4	300	279
6x2x1	1.3	0.6	2.5	1.2	17.0	373	348
7x2x1	1.3	0.6	2.5	1.2	17.0	380	350
8x2x1	1.3	0.6	2.5	1.3	19.4	451	417
9x2x1	1.3	0.6	2.5	1.3	22.0	533	494
10x2x1	1.3	0.6	2.5	1.3	22.0	539	497
12x2x1	1.3	0.6	2.5	1.4	22.9	635	584
16x2x1	1.3	0.6	2.5	1.4	25.6	829	761
19x2x1	1.3	0.6	2.5	1.5	27.2	955	875
25x2x1	1.3	0.6	2.5	1.7	32.4	1261	1155
30x2x1	1.3	0.6	2.5	1.7	34.4	1477	1350
35x2x1	1.3	0.6	2.5	1.8	37.4	1784	1636
40x2x1	1.3	0.6	2.5	1.9	39.1	1958	1789
50x2x1	1.3	0.6	2.5	2	44.6	2485	2273
2x2x1.5	1.6	0.6	2.8	1.1	13.1	176	166
3x2x1.5	1.6	0.6	2.8	1.1	13.9	232	217
4x2x1.5	1.6	0.6	2.8	1.1	15.3	292	272
5x2x1.5	1.6	0.6	2.8	1.2	17.0	381	356
6x2x1.5	1.6	0.6	2.8	1.2	18.6	464	434
7x2x1.5	1.6	0.6	2.8	1.2	18.6	474	440
8x2x1.5	1.6	0.6	2.8	1.3	21.2	562	523
9x2x1.5	1.6	0.6	2.8	1.4	24.4	675	631
10x2x1.5	1.6	0.6	2.8	1.4	24.4	686	637
12x2x1.5	1.6	0.6	2.8	1.5	25.4	807	748
16x2x1.5	1.6	0.6	2.8	1.5	28.3	1057	979
19x2x1.5	1.6	0.6	2.8	1.6	30.1	1219	1126
25x2x1.5	1.6	0.6	2.8	1.8	35.8	1607	1485
30x2x1.5	1.6	0.6	2.8	1.9	38.2	1905	1758
35x2x1.5	1.6	0.6	2.8	2	41.6	2296	2125
40x2x1.5	1.6	0.6	2.8	2	43.2	2501	2305
50x2x1.5	1.6	0.6	2.8	2.2	49.5	3197	2951
2x2x2.5	2	0.6	3.2	1.2	14.7	231	219
3x2x2.5	2	0.6	3.2	1.2	15.6	309	291
4x2x2.5	2	0.6	3.2	1.2	17.2	391	367
5x2x2.5	2	0.6	3.2	1.3	19.1	509	480
6x2x2.5	2	0.6	3.2	1.4	21.2	631	596
7x2x2.5	2	0.6	3.2	1.4	21.2	649	608
8x2x2.5	2	0.6	3.2	1.5	24.1	766	720
9x2x2.5	2	0.6	3.2	1.5	27.4	903	851
10x2x2.5	2	0.6	3.2	1.6	27.6	934	876
12x2x2.5	2	0.6	3.2	1.6	28.5	1086	1016
16x2x2.5	2	0.6	3.2	1.7	32.0	1442	1350
19x2x2.5	2	0.6	3.2	1.8	34.1	1664	1554
25x2x2.5	2	0.6	3.2	2	40.5	2189	2044
30x2x2.5	2	0.6	3.2	2.1	43.2	2595	2421
35x2x2.5	2	0.6	3.2	2.2	47.0	3123	2920
40x2x2.5	2	0.6	3.2	2.3	49.0	3434	3202
50x2x2.5	2	0.6	3.2	2.5	56.1	4377	4087



• TECHNICAL DATA •

FORMULAS

1- Characteristic Impedance

$$z_o = \frac{138.2}{\sqrt{\epsilon}} \log \frac{D + 1.5a_m}{kd_m} = \sqrt{(L_m/C_m)}$$

2- Capacitance

$$c_m = \frac{24.13\epsilon}{\log \frac{D_m + 1.5a_m}{kd_m}} = \frac{3334.5\sqrt{\epsilon}}{z_o}$$

3- Attenuation

$$A_m = \frac{36.25}{z_o} \left(\frac{1}{D_m} + \frac{1}{d_m} \right) \sqrt{f} + 9.12 P \sqrt{\epsilon} f$$

4- Velocity of propagation

$$v_p = \frac{100}{\sqrt{\epsilon}} \%$$

ϵ = dielectric constant

D_m = insulated conductor diameter (mm)

d_m = conductor diameter (mm)

a_m = single-end braid wire diameter (mm)

k = stranding factor:

1.000 For 1 strand

0.939 For 7 strands

0.970 For 19 strands

0.980 For 37 strands

L_m = inductance in (pH/m)

z_o = characteristic impedance (Ω)

C_m = capacitance in (pF/m)

f = frequency in (MHZ)

A_m = attenuation in (dB/100m)

v_p = velocity of propagation in percent

P = power factor (tg δ)

IEC & AWC Abbreviations

Cu	Copper
Al	Aluminum
AA	Aluminum Alloy
TiCu	Tinned Copper
SiCu	Silver Coated copper
RM	Stranded Circular
SM	Shaped Stranded
SE	Shaped Solid
RE	Solid Circular
RF	Flexible Circular
RMS	Stranded Segmental (Milliken)

CTS	Copper Tape Screen
CWS	Copper Wire Screen
CuB	Copper Wire Braided Screen
ICTS	Individual Copper Tape Screen
ICWS	Individual Copper Wire Screen
ISCR	Individual Screen Formed by Polyester + Tinned Drain Wire + Aluminum Backed Polyester + Polyester
ISCRC	Individual Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester + Polyester
OSCR	Overall Screen Formed by Polyester + Tinned Drain Wire + Aluminum Backed Polyester
OSCRC	Overall Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester
TCB	Tinned Copper Wire Braided Screen
CW	Communication Wire
ATA	Double Aluminum Tape Armour
STA	Double Galv. Steel Tape Armour
AWA	Aluminum Wire Armour
AWAT	Aluminum Wire Armour + Counter Herlix
SWA	Galv. Steel Wire Armour
SWAT	Galv. Steel Wire Armour + Counter Helix
SSWA	Stainless Steel Wire Armour

DAWA	Double Aluminum Wire Armour
DSWA	Double Galv. Steel Wire Armour
TCWA	Tinned Copper Wire Armour
AWB	Aluminum Wire Braided
SWB	Galv. Steel Wire Braided
AIPE	Aluminum Copolymer Coated
Bd	Bedding
BdT	Bedding Tape (PVC or PE)
MGT	Mica Glass Tape
PPT	Polypropylene Tape
WBT	Water Blocking Tape
Pet	Polyester Tape (Mylar)
PPY	Polypropylene Yarn
WBY	Water Blocking Yarn
FPE	Foamed Polyethylene (Cellular)
TPE	Thermoplastic Elastomer
PVC	Polyvinylchloride
XLPE	Cross Linked Polyethylene
SIR	Silicone Rubber
PE	Polyethylene
EVA	Ethylene Vinyl Acetate
XEVA	Cross Linked EVA

HDPE	High Density Polyethylene
HEPR	Hard Grade Ethylene Propylene Rubber
LDPE	Low Density Polyethylene
MDPE	Medium Density Polyethylene
LSFOH	Low Smoke Flame Retardant Zero Halogen
EPR	Ethylene Propylene Rubber
PVCE	High Temperature PVC (90°C)
PVCH	High temperature Sheathing Compound equal to IEC ST2,VDE YM5 (90°C)
APVC	Anti Termite PVC
APVCE	Anti Termite High Temperature PVC (90°C)
APVCH	Anti Termite & High Temperature Sheathing Compound equal to IEC ST2, VDE YM5 (90°C)
XPVC	Cross Linked PVC
OPVC	Oil, Acid & Hydrocarbon Resistance Sheathing Compound
OPVCH	Oil Resistant & High Temperature Sheathing Compound equal to IEC ST2, VDE YM5 (90°C)

VDE Abbreviations

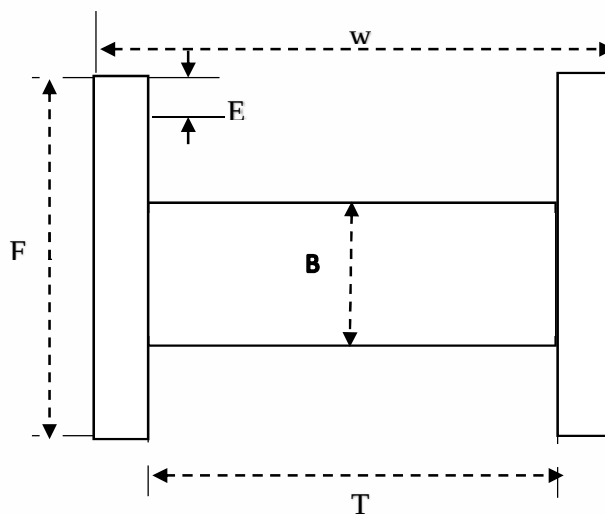
N	DIN VDE standard type
(N)	With Reference to DIN VDE standard
A	Aluminium conductor
-	Copper
Y	PVC
2X	Cross-linked PE(VPE)
C	Concentric Cu conductor, in longitudinal twist
CW	Concentric Cu conductor, corrugated
CE	Concentric Cu conductor for individual core
S	Cu shielding
SE	Cu screening per individual core in multi-core cables
H	Conductive layer
(F)	Longitudinally watertight shielding
B	Steel strip reinforcement
F	Flat wire, zinc-plated
G	Counterhelix consisting of zinc-plated steel strip
R	Round-section wire, zinc-plated
A	Protective cover consisting of fiber materials
K	Lead sheath
KL	Aluminium sheath
Y	PVC
2Y	PE
I	With protective conductor
O	Without protective conductor
r...	Round-section conductor
s...	Sector-section conductor
o...	Oval conductor
e...	Single wire conductor
m...	Multi-wire conductor
h...	Hollow conductor

Max Cable length in meters on standard drums

Drum Sizes													
Cable Dia. mm	6	8	10	12	14	16	18	20	22	24	26	30	Cable Dia. mm
6	1326	3961											6
7	975	2910											7
8	746	2228	4391										8
9	590	1760	3470										9
10	478	1426	2810	4566									10
11	395	1178	2323	3774									11
12	332	990	1952	3171	4912								12
13	283	844	1663	2702	4185								13
14		727	1434	2330	3609	4934							14
15		634	1249	2029	3144	4298							15
16		557	1098	1784	2763	3777							16
17		493	972	1580	2448	3346	4858						17
18		440	867	1409	2183	2985	4333	4643					18
19		395	778	1265	1959	2679	3889	4167	4722				19
20		356	703	1142	1768	2417	3510	3760	4262				20
21		323	637	1035	1604	2193	3183	3411	3866				21
22		295	581	943	1461	1998	2901	3108	3522	4815			22
23		270	531	863	1337	1828	2654	2843	3223	4406			23
24			488	793	1228	1679	2437	2611	2960	4046			24
25			450	731	1132	1547	2246	2407	2728	3729			25
26			416	675	1046	1430	2077	2225	2522	3448			26
27			386	626	970	1326	1926	2063	2338	3197			27
28			358	582	902	1233	1791	1919	2174	2973			28
29			334	543	841	1150	1669	1789	2027	2771	4826		29
30			312	507	786	1074	1560	1671	1894	2590	4510		30
31			292	475	736	1006	1461	1565	1774	2425	4224		31
32			274	446	691	944	1371	1469	1665	2276	3964		32
33			258	419	650	888	1289	1381	1565	2140	3727	4999	33
34				395	612	836	1214	1301	1475	2016	3511	4709	34
35				373	577	789	1146	1228	1392	1903	3313	4444	35
36				352	546	746	1083	1161	1315	1798	3132	4200	36
37				334	517	706	1026	1099	1245	1702	2965	3976	37
38				316	490	670	972	1042	1181	1614	2811	3770	38
39				300	465	636	923	989	1121	1532	2669	3579	39
40				285	442	604	877	940	1065	1457	2537	3402	40
41				272	421	575	835	895	1014	1386	2415	3238	41
42				259	401	548	796	853	966	1321	2301	3086	42
43					383	523	759	814	922	1260	2195	2944	43
44					365	499	725	777	881	1204	2097	2812	44
45					349	478	693	743	842	1151	2004	2688	45
46					334	457	663	711	806	1101	1918	2573	46
47					320	438	636	681	772	1055	1837	2464	47
48					307	420	609	653	740	1012	1762	2363	48
49					295	403	585	626	710	971	1691	2267	49
50					283	387	562	602	682	932	1624	2178	50
51					272	372	540	578	655	896	1561	2093	51
52					262	358	519	556	630	862	1501	2013	52
53					252	344	500	535	607	830	1445	1938	53
54						332	481	516	585	799	1392	1867	54
55						320	464	497	564	770	1342	1800	55

56						308	448	480	544	743	1294	1736	56
57						298	432	463	525	717	1249	1676	57
58						287	417	447	507	693	1207	1618	58
59						278	403	432	490	670	1166	1564	59
60						269	390	418	474	647	1127	1512	60
61						260	377	404	458	626	1091	1463	61
62						252	365	391	443	606	1056	1416	62
63							354	379	430	587	1023	1372	63
64							343	367	416	569	991	1329	64
65							332	356	403	552	961	1288	65
66							322	345	391	535	932	1250	66
67							313	335	380	519	904	1213	67
68							304	325	369	504	878	1177	68
69							295	316	358	490	853	1143	69
70							287	307	348	476	828	1111	70
71							278	298	338	462	805	1080	71
72							271	290	329	450	783	1050	72
73							263	282	320	437	762	1022	73
74							256	275	311	426	741	994	74
75							250	267	303	414	722	968	75
76								260	295	403	703	942	76
77								254	288	393	685	918	77
78									280	383	667	895	78
79									273	373	650	872	79
80									266	364	634	851	80
81									260	355	619	830	81
82									254	347	604	810	82
83										338	589	790	83
84										330	575	772	84
85										323	562	753	85
86										315	549	736	86
87										308	536	719	87
88										301	524	703	88
89										294	512	687	89
90										288	501	672	90
91										281	490	657	91
92										275	480	643	92
93										269	469	629	93
94										264	459	616	94
95										258	450	603	95
96										253	440	591	96
97											431	579	97
98											423	567	98
99											414	555	99
100											406	544	100

Drum size	Flange Dia.F	Barrel Dia.B	Traverse T	Width Overall W	Drum weight Kg
6	600	300	400	430	20
8	800	350	520	600	30
10	1000	450	620	700	50
12	1200	600	720	820	70
14	1400	700	790	920	125
16	1600	900	900	1028	175
18	1800	1100	1120	1248	290
20	2000	1200	1120	1248	330
22	2200	1400	1120	1248	450
24	2400	1600	1370	1570	595
26	2600	1600	1700	1900	645
30	3000	2000	1900	2100	770



$$L_T = \frac{\pi NP (B + PD)}{1000}$$

$$P = \frac{F - B - 2E}{2D}$$

$$N = 0.95 \frac{T}{D}$$

L_T = Length of Cable (m)

F= Flange Dia. (mm)

B= Barrel Dia. (mm)

D= Cable Dia. (mm)

T= Traverse (mm)

E= Empty Space (mm)

1- Inductance

$L = K + 0.2 \ln(2D/d)$ (mH/km)

K= Constant relating to conductor structure

D= Axial cable spacing (mm)

d= Conductor diameter (mm)

K	Strands
0	1
0.078	3
0.0642	7
0.0554	19
0.0528	37
0.0514	61 & over

2- Maximum Pulling Tension

Unarmoured:

$T = KS$ (N)

K = 50 for Copper

K = 30 for Aluminum

Armoured:

$$T = K'D^2 \text{ (N)}$$

$K' = 9$ for wire Armour

$K' = 3$ for tape Armour, lead sheath

S: Conductor cross section (mm^2)

D: Cable diameter (mm)

3-Capacitance

2 conductors:

$$C_m = \frac{12.10\varepsilon}{\log\left(\frac{D_m}{Kd_m} + \sqrt{\left(\frac{D_m}{Kd_m}\right)^2 - 1}\right)}$$

Twisted Pair in Air:

$$C_m = \frac{7.25\varepsilon}{\log\frac{1.3D_m}{Kd_m}}$$

Shielded Twisted Pair:

$$C_m = \frac{12.10\varepsilon}{\log\frac{1.2D_m}{Kd_m}}$$

Cabled Twisted Pair

$$C_m = \frac{9.61\varepsilon}{\log\frac{1.5D_m}{Kd_m}}$$

4-Characteristic Impedance

$$Z_0 = \frac{3334.5\sqrt{\varepsilon}}{C_m}$$

ε = dielectric constant

D_m = insulated diameter (mm)

d_m = conductor diameter (mm)

k = stranding factor:

1.000 For 1 strand

0.939 For 7 strands

0.970 For 19 strands

0.980 For 37 strands

Z_0 = characteristic impedance (Ω)

C_m = capacitance in (pF/m or nF/Km)

Permissible current of cable for networks

Number of conductors × section (mm ²)	Maximum Current carrying Capacity (Core temperature :90°C) (A)		Voltage Drop (mV×A/m)
	in the air at 30°C. held between posts	Public lighting In the air at 30°C	
3×25+54.6	112	-----	2.20
3×35+54.6+16	138	83	1.65
3×50+54.6+16	168	83	1.27
3×70+54.6+16	213	83	0.87
3×70+54.6+16	213	111	0.87
3×70+70+16	213	83	0.87
3×95+70+16	253	83	0.67
3×120+70+16	300	83	0.55
3×120+95+16	300	83	0.55
3×150+70+16	344	83	0.46
3×150+95+16	344	83	0.46

NOTE: 54,6 mm² 70mm²; and 95mm² are messenger in aluminium alloy

Permissible current of connection cable

Number of conductors x section (mm ²)	Maximum Current carrying Capacity (Core temperature :90°C) (A)			Voltage drop With Cos φ = 0.8 (mV×A/m)
	Under use in the wall conduit at hottest point	In the air	On the wall	
2×16 (SP)	72	93	83	3.98
2×25 (SP)	95	122	111	2.54
4×16 (TP)	63	83	75	3.44
4×25 (TP)	83	111	99	2.20
2×16+2×1.5 (SP)	72	93	83	3.98
2×25+2×1.5 (SP)	95	122	111	2.54
4×16+2×1.5 (TP)	63	83	75	3.44
4×25+2×1.5 (TP)	83	111	99	2.20

(SP) Single phased Network.

(TP) Triple phased Network.

Table to Convert Cable Conductor from Copper to Aluminum

A- Single Core Cable (mm²)

Copper	1×25	1×35	1×50	1×70	1×95	1×120	1×150	1×185	1×240	1×300
Aluminum	1×50	1×70	1×95	1×120	1×150	1×185	1×240	1×300	1×400	1×500

B- Multi Cores Cable (mm²)

Copper	2×6	2×10	2×16	3×16	3×25	3×35	4×6	4×10	4×16	4×25	4×35
Aluminum	2×10	2×16	2×25	3×25	3×35	50×30	4×10	4×16	4×25	4×35	4×50

Max. Permissible Current Rating of Cables with XLPE Insulation &

Rated Voltage Of 0.6/1 Kv

▪ **Copper Conductors**

Nominal Cross section (mm ²)	In the air 30 °C				In the ground 15 °C			
	One Core		Two Cores (A)	Three or Four Cores (A)	One Core		Two Cores (A)	Three or Four Cores (A)
	Trefoil (A)	Flat (A)			Trefoil (A)	Flat (A)		
16	-	-	118	101	-	-	141	119
25	-	-	154	132	-	-	183	152
35	-	-	190	164	-	-	219	182
50	217	279	229	196	241	241	259	222
70	277	350	288	247	284	295	317	266
95	320	425	355	305	320	350	381	319
120	395	488	411	353	386	395	444	363
150	454	543	469	404	431	434	485	406
185	566	610	541	465	485	482	547	458
260	615	700	639	529	558	545	632	569
300	700	775	778	666	624	597	708	592
400	800	834	838	720	691	637	799	667

▪ **Aluminum Conductors**

Nominal Cross section (mm ²)	In the air 30 °C				In the ground 15 °C			
	One Core		Two Cores (A)	Three or Four Cores (A)	One Core		Two Cores (A)	Three or Four Cores (A)
	Trefoil (A)	Flat (A)			Trefoil (A)	Flat (A)		
16	-	-	90	76	-	-	108	91
25	-	-	114	100	-	-	138	96
35	-	-	141	126	-	-	165	139
50	162	209	169	147	177	185	196	115
70	208	264	213	186	218	242	240	203
95	255	322	-	239	260	270	288	244
120	295	370	-	266	296	306	-	278
150	340	417	-	305	331	331	-	311
185	396	474	-	354	372	380	-	353
260	464	550	-	417	423	435	-	409
300	532	619	-	478	486	484	-	461

Max. Permissible Current Rating of Cables with PVC Insulation &

Rated Voltage Of 0.6/1 kv

▪ **Copper Conductors**

Nominal Cross section (mm ²)	In the air 30 °C				In the ground 15 °C			
	One Core		Two Cores (A)	Three or Four Cores (A)	One Core		Two Cores (A)	Three or Four Cores (A)
	Trefoil (A)	Flat (A)			Trefoil (A)	Flat (A)		
16	-	-	94	80	-	-	112	100
25	-	-	116	101	-	-	152	121
35	-	-	148	126	-	-	189	158
50	167	279	180	154	200	210	265	188
70	216	281	232	216	246	258	276	231
95	264	341	282	238	293	210	336	277
120	308	396	368	276	345	354	379	316
150	356	456	379	319	376	397	425	355
185	401	561	434	312	402	451	480	401
260	485	615	514	430	491	524	559	466
300	561	709	593	442	553	594	641	545

Aluminum Conductors

Nominal Cross section (mm ²)	In the air 30 °C				In the ground 15 °C			
	One Core		Two Cores (A)	Three or Four Cores (A)	One Core		Two Cores (A)	Three or Four Cores (A)
	Trefoil (A)	Flat (A)			Trefoil (A)	Flat (A)		
16	-	-	73	61	-	-	89	76
25	-	-	89	78	-	-	108	100
35	-	-	111	96	-	-	142	120
50	128	193	135	117	154	110	199	144
70	165	210	173	150	187	127	209	176
95	203	256	210	184	224	246	250	211
120	237	298	-	212	256	269	-	241
150	274	364	-	245	287	302	-	271
185	316	392	-	280	325	333	-	307
260	375	466	-	340	477	399	-	357
300	425	538	-	381	636	653	-	404

Permissible Current Rating of Cables with Copper Conductor, PVC Insulation & PVC Sheath

Nominal Cross section (mm ²)	Three or Four Cores		Two Cores		One Core	
	In 30 °C the air	In the ground 20 °C	In 30 °C the air	In the ground 20 °C	In 30 °C the air	In the ground 20 °C
1/5	18	27	21	30	26	37
2/5	25	36	29	41	35	50
4	34	46	38	53	46	65
6	44	58	48	66	58	84
10	60	77	66	88	80	110
11	80	100	90	115	105	145
25	105	130	120	150	140	190
35	140	155	150	180	175	235
50	160	185	180	210	215	280
70	200	240	230	260	270	350
95	245	275	275	315	335	420
120	285	315	320	360	390	480
150	325	355	375	400	445	540
185	370	400	430	460	510	640
260	435	465	510	540	620	720
300	500	520	590	590	710	840
400	600	600	710	680	850	960
500	-	-	-	-	1000	1110

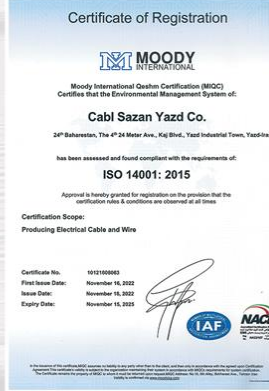
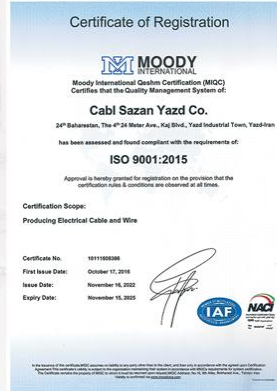
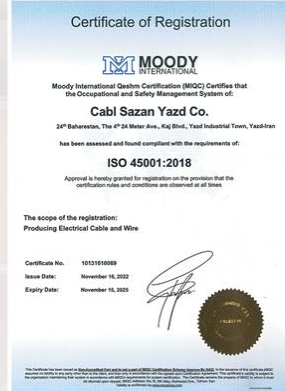
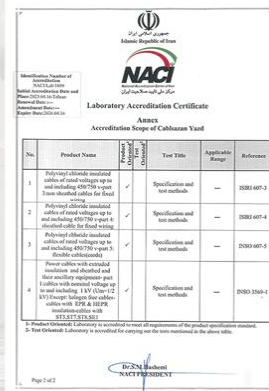
Derating Factor Of Max. Current Rating Of Cables

Air temperature	5	10	15	20	25	30	35	40	45	50	55
Derating Factor	1/37	¹ / ₂₁	1/17	¹ / ₁₂	1/06	1	0/94	0/87	0/79	0/71	0/61

Ground temperature	10	15	20	25	30	35
Derating Factor	1/10	1/05	1	0/95	0/89	0/84

**Table for calculating the cross-section of copper and aluminum wires in relation to the distance
and allowed current**

Copper	Aluminum	10	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000
1.5	2.5	27	15	7	5	-	-	-	-	-	-	-	-	-	-	-	-
2.5	4	36	25	12	8	6	-	-	-	-	-	-	-	-	-	-	-
4	6	46	40	20	13	10	8	8	-	-	-	-	-	-	-	-	-
6	10	58	58	30	20	15	12	10	8	7	6.5	6	5	-	-	-	-
10	16	77	77	50	33	25	20	18	14	12	11	10	8	7	6	5	5
16	25	100	100	80	53	40	32	26	22	20	17	16	13	11	10	8	8
25	50	130	130	125	83	62	50	41	35	31	27	25	20	17	15	13	12
35	70	155	155	155	115	86	69	57	49	43	38	34	28	24	21	18	17
50	95	185	185	185	158	117	93	78	66	58	52	46	38	32	28	25	23
70	120	230	230	230	222	166	133	111	95	83	74	66	55	47	41	36	33
95	150	275	275	275	275	225	180	150	29	112	100	90	75	64	58	50	45
120	185	315	315	315	315	275	222	185	159	139	123	111	92	89	69	87	55
150	240	355	355	355	355	330	264	220	189	165	147	132	110	94	82	73	66
185	300	400	400	400	400	393	314	267	224	198	176	157	131	112	98	87	78
240	400	465	465	465	465	437	349	291	249	218	194	174	145	124	109	97	87
300	500	550	550	550	550	496	397	331	283	248	220	189	165	141	124	110	99



شرکت کابل سازان یزد

تولید کننده انواع سیم و کابل برق
برخط مدرت...



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