



General Catalogue 2018-19
High Voltage Edition



از پایشگاه های اکرودینه گروه کارخانجات سیم و کابل مشهد دارای نایاب
۱- از پایشگاه اکرودینه سیم و کابل مشهد اولین دارنده گواهینامه NACI/Lab/349 ایران به شماره
۲- از پایشگاه اکرودینه سیم و کابل مباراک و قدرت هرآسان توان دارد
به شماره NACI/Lab/441 از پایشگاه های اکرودینه گروه کارخانجات سیم

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نظر را نصب نموده و سپس لوگو روی جلد کاتالوگ

mented Reality on catalogue cover, just need
reasid application and then scan the related

Producer of
All kinds of LY - MV & HV Cables

Mashad
Wire &
Cable Group



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Technical Information

90-96

اطلاعات فنی



Technical Data

PVC Insulated electrical cable specifications

مشخصات کابل یا اکتیریک با عایق

| Cross Section | AC resistance of CU at 70 | AC resistance of AL at 70 | Multi-strand cable reactance | Reactance 3 single core cables triangular | Reactance adjacent 3 single core cables |
|-----------------|---------------------------|---------------------------|------------------------------|---|---|
| mm ² | Ω / Km | Ω / Km | Ω / Km | Ω / Km | Ω / Km |
| 1.5 | 14.48 | ----- | ----- | ----- | ----- |
| 2.5 | 8.87 | ----- | ----- | ----- | ----- |
| 4 | 5.52 | ----- | ----- | ----- | ----- |
| 6 | 3.69 | ----- | ----- | ----- | ----- |
| 10 | 2.19 | ----- | ----- | ----- | ----- |
| 16 | 1.38 | 2.29 | 0.086 | 0.108 | 0.122 |
| 25 | 0.870 | 1.442 | 0.085 | 0.103 | 0.117 |
| 35 | 0.627 | 1.043 | 0.083 | 0.098 | 0.113 |
| 50 | 0.464 | 0.771 | 0.077 | 0.096 | 0.111 |
| 70 | 0.322 | 0.533 | 0.075 | 0.092 | 0.107 |
| 95 | 0.232 | 0.385 | 0.074 | 0.091 | 0.105 |
| 120 | 0.185 | 0.305 | 0.072 | 0.087 | 0.102 |
| 150 | 0.150 | 0.249 | 0.072 | 0.087 | 0.101 |
| 185 | 0.121 | 0.199 | 0.072 | 0.086 | 0.100 |
| 240 | 0.094 | 0.152 | 0.072 | 0.085 | 0.098 |
| 300 | 0.076 | 0.0123 | 0.071 | 0.084 | 0.097 |

XLPE Insulated electrical cable specifications

مشخصات کابل یا اکتیریک با عایق

| Cross Section | AC resistance of CU at 90 | AC resistance of AL at 90 | Multi-strand cable reactance | Reactance 3 single core cables triangular | Reactance adjacent 3 single core cables |
|-----------------|---------------------------|---------------------------|------------------------------|---|---|
| mm ² | Ω / Km | Ω / Km | Ω / Km | Ω / Km | Ω / Km |
| 1.5 | 15.43 | ----- | ----- | ----- | ----- |
| 2.5 | 9.45 | ----- | ----- | ----- | ----- |
| 4 | 5.88 | ----- | ----- | ----- | ----- |
| 6 | 3.93 | ----- | ----- | ----- | ----- |
| 10 | 2.33 | ----- | ----- | ----- | ----- |
| 16 | 1.47 | 2.45 | 0.081 | 0.103 | 0.118 |
| 25 | 0.927 | 1.539 | 0.081 | 0.099 | 0.114 |
| 35 | 0.669 | 1.113 | 0.079 | 0.095 | 0.110 |
| 50 | 0.494 | 0.822 | 0.073 | 0.092 | 0.107 |
| 70 | 0.343 | 0.569 | 0.072 | 0.089 | 0.104 |
| 95 | 0.247 | 0.411 | 0.069 | 0.087 | 0.102 |
| 120 | 0.197 | 0.325 | 0.069 | 0.085 | 0.099 |
| 150 | 0.160 | 0.265 | 0.070 | 0.084 | 0.099 |
| 185 | 0.129 | 0.212 | 0.070 | 0.084 | 0.099 |
| 240 | 0.100 | 0.162 | 0.069 | 0.082 | 0.097 |
| 300 | 0.081 | 0.131 | 0.068 | 0.081 | 0.096 |

Mashad Cable Factory Group

رژمده

گروه کارخانجات سیم کابل مشهد در ابتدای تاریخ بسیر و کابل مشهد در سال ۱۳۷۰ به تأسیس و در ابتدای این شرکت پیشتر نکهه توپلی مخصوصات ساختمانی داشت به طوری که خیلی زود و با کسب حقوقی استاندارد ۶۰۷ و ۶۰۸ رو به رشد پیشیت خود توانست در همان ابتدا سه خود در بازار به تست آورد. بعد از آن شرکت ۹۰۰۲ رسایس ISO ۱۵۰ و ۱۶۰ و پایه الامات آن رو به توپلی مخصوصات خود تر و مشتریان عصاک اورد. در حدود سال ۱۳۷۹ شرکت مخابراتی فقرت در خراسان در کارخانجات سیم و کابل مشهد تأسیس گردید.

ازین تولد جدید و به روز رسال الامات استاندارد ISO ۹۰۰۴ را باعث اجاد آنکه مدیریت زار و زود به ایجاد گذرهای جمله سیم و کابل خودروی گذرد و از طریز که این سیمان این سیمان اولین توپلی‌گذرنده‌گان است موفق شده سیم و کابل خود را با وجود سخت گرانه این ریز استاندارد راهی محصول و پیشنهاد مدیریت کیفیت مبنی بر ISO TS ۶۷۹ و ساخت ۷۹ با پیغامی که گفت، توپلی نمایند.

و در ادامه این ماده تأثیر آنلاین‌گاههای اکرودینه و ر&D واحد را در ایجاد آنکه باید وارد به محصولات بینیزد و به خصوص آنپنوم و کابلی خود را توپلی‌گذرنده نتشن سازی را داشت.

بعد اکنون ایجادگاههای اکرودینه سیم و کابل مشهد بسیار احتمالی استاندارد ISO/IEC ۱۷۰۲۵ را بر عین ایجادگاههای دارای این گواهانهای در شرق کشور نشانه نهاده اند. همچنین ایجادگاههای اکرودینه سیم کابل مخابرات و دریافت سیمان از آن استاندارد ISO/IEC ۱۷۰۲۵ را در زمینه اینون کابلهای مخابراتی و شکه اولین ایجادگاههای در سطح کشور می‌دانند که این مهر دست یافته است این شرکت در سیمان‌ای آخر با ایجاد واحد مهندسی و طراحی محصول (R&D) و باکاری به اداره محرب خود در واحدهای فنی و تخصصی و پیوپل و کنترل کیفیت فعالیت احداث، طراحی و توپلی کابلهای شناسنی و قفاره کتابخانه ای از سطح کابل KV ۶۳ و بازان نموده است که با عنده تکمیل سیم کابلی سیمان و ایمان پایی به بازارهای بین الملل جدید را باید گردید کارخانجات سیم و کابل مشهد فراهم نموده است.



Mashad Wire & Cable Co.
www.mashadatcable.ir

History

Factory group of Mashhad wire and cable was first registered with the commercial name of Mashhad Wire & cable, in 1991. At first, this company had more emphasis on production of products used in buildings, in a way that, very soon, by obtaining the standard licenses 607 and enhancing its quality, this company achieved in attaining its own part from the market. Thereafter, by implementation of ISO 9002 and based on its requirements, the company started to produce more products. In 1996, by obtaining license 3659, the power and communication company of Khorasan established along with Mashhad Wire & cable's company. This new birth and updating the requirements of ISO 9000 standard, motivated the company management to enter to the new markets including vehicle's wire and cable, in a way that this organization was among the first producers which achieved to successfully produce vehicles wire and cable with the best quality in accordance to the most strict production standards and according to serious quality control system bases on ISO TS and SAPOCO 79.

Since then, the company has never been based on restricting each organization only to produce some specific products and it has always been attempted that all the organizations be able to produce all the products. Power and Communication Company of Khorasan has also started to produce building products by attaining 607 standard series. Then, for the purpose of more powerful presence in the tenders, the two companies attempted to obtain the standard license No 3569 for production of low voltage cables of 1 kV volt, in a way, by obtaining the required licenses, these two companies rapidly entered to mass production. These units supplied the required power distribution in most of the provinces of Iran. Taking the actions such as establishment of accredited labs and R & D units played an important role in motivating the management to enter to the production of new products especially aluminum cables and self sustaining cables.

At the present, after auditing ISO/ IEC 17025 standards, the accredited lab of Mashhad Wire & Cable Company was recognized as the first lab in eastern part of Iran possessing this license. This lab with its experienced specialists is serving in the industrial and custom sections of country and colleague of Khorasan Razavi province's office of Standards and industrial research. Also, by obtaining the standard of ISO/ IEC 17025, the accredited lab of Mashhad Wire & Cable Company is the first lab in country achieving to the communication cables and networks test. As it was mentioned before, it has to be noted that, in recent years this company by creating the engineering, research and development and R&D units along with the employment of the experienced staff in different sections such as technical, development, production and quality control, has succeeded in design and production of the new products and MV & HV up to 63kV cable (with different sizes and raw materials) according to the needs of the customers and presented them to the consumption markets.

| سال | اخراجات در رفاقت گروه کارخاجات سیم و کابل مشهد |
|------|--|
| ۱۳۷۸ | و اخذ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۷۹ | و اخذ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۰ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۱ | و اخذ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۲ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۳ | و اخذ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۴ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۵ | و اخذ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۶ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۸۷ | از پیشنهاد همکار نمونه از استاندار و پیش مواری استاندار |
| ۱۳۸۸ | صادر گند نمونه اسان |
| ۱۳۸۹ | کارگرین بیرون اسان |
| ۱۳۹۰ | صادر گند نمونه اسان |
| ۱۳۹۱ | و اخذ نمونه از خانه صنعت ،معدن و جاوه |
| ۱۳۹۲ | و اخذ نمونه از خانه صنعت ،معدن و جاوه |
| ۱۳۹۳ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۹۴ | مسئول کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۳۹۵ | صادر گند نمونه اسان |
| ۱۳۹۶ | و اخذ نمونه از خانه صنعت ،معدن و جاوه |
| ۱۳۹۷ | شان دزین سه سواره لوپی گند نمونه برتر سیم و کابل |
| ۱۳۹۸ | صادر گند نمونه اسان |
| ۱۳۹۹ | و اخذ نمونه صنعتی از خانه صنعت ،معدن و جاوه |
| ۱۴۰۰ | برتر نفعی و سوسی بیرون کنکول از وزارت صنعت،معدن و جاوه |
| ۱۴۰۱ | لوچ درین اسقاط مل مدل تویله کالا و خدمات |
| ۱۴۰۲ | تندیس رایات حقوق صرف کنندگان اسان |
| ۱۴۰۳ | صادر گند نمونه اسان |
| ۱۴۰۴ | مسئول کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |
| ۱۴۰۵ | و اخذ نمونه تولیدی اسان |
| ۱۴۰۶ | تندیس رایات حقوق صرف کنندگان کشوری |
| ۱۴۰۷ | تندیس طبلی برند بین مل |
| ۱۴۰۸ | کنکول گفتگ نمونه از اداره استاندار و تحقیقات صنعتی ایران |



Mashad Wire & Cable Co.
www.mashadable

| Year | Collection of Honors by Mashad wire & cable Group |
|------|---|
| 1999 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2000 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2002 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2003 | Selective QC Unit by Standard Organization and Industrial Research of Iran |
| 2004 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2006 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2008 | Selective QC Unit by Standard Organization and Industrial Research of Iran |
| 2011 | Selective Unit by Standard Organization and Industrial Research of Iran |
| 2011 | Selective QC Unit by Standard Organization and Industrial Research of Iran |
| 2013 | Selective Standard Lab. by Khorasan County & Chairman of Standard Board |
| 2013 | Selective Exporter Unit by Khorasan Razavi County |
| 2013 | The Superior Entrepreneur in province by Khorasan Razavi County |
| 2014 | Selective Exporter Unit by Khorasan Razavi County |
| 2014 | Selective Industrial Unit by House of Industry, Mine & Commerce |
| 2014 | The Superior Production Unit by Khorasan Razavi County |
| 2014 | Selective QC Unit by Standard Organization and Industrial Research of Iran |
| 2014 | Selective QC Manager by Standard Organization and Industrial Research of Iran |
| 2014 | The Superior Entrepreneur in province by Khorasan Razavi County |
| 2015 | Selective Exporter Unit by Khorasan Razavi County |
| 2015 | Selective Industrial Unit by House of Industry, Mine & Commerce |
| 2016 | Stars Golden Mark for the Best Producer of Wire & Cable 3 |
| 2016 | Selective Exporter Unit by Khorasan Razavi County |
| 2016 | Selective Industrial Unit by House of Industry, Mine & Commerce |
| 2016 | The Best R&D Center by Ministry of Industry, Mine & Commerce of Iran |
| 2016 | Golden Tablet of National Endurance in Production and Service |
| 2016 | Observance Tablet of Consumers Rights of Khorasan |
| 2017 | Selective Exporter Unit by Khorasan Razavi County |
| 2017 | Selective QC Manager by Standard Organization and Industrial Research of Iran |
| 2017 | The Superior Production Unit by Khorasan Razavi County |
| 2017 | Observance Tablet of Consumers Rights of Iran |
| 2018 | The golden Status of National Superior Brand |
| 2018 | Selective QC Unit by Standard Organization and Industrial Research of Iran |





Jumper Wires

| No. | Conductor Dia | Insulation Thickness | Overall Dia | Max. Of Conductor Resistance at 20°C | Min. Of Insulation Resistance at 500V (dc) | Min. Of Dielectric Strength at 1.5kV (rms) | Weight |
|-------|---------------|----------------------|-------------|--------------------------------------|--|--|--------|
| mm | mm | mm | mm | Ω/km | MΩ/km | S | Kg/km |
| 2x0.6 | 0.25 | 0.25 | 1.1 | 65 | 500 | 3 | 7 |
| 2x0.5 | 0.2 | 0.2 | 0.9 | 88 | 500 | 3 | 4.8 |

Jumper Wire YY

Standard: TCI, VDE 0815/0812
 Rated Voltage: 400V
 Plain Annealed Tinned Copper
 Insulation: PVC
 Application: For Cross Connection Of
 Frames And Equipment In Telephone
 Exchange

سیم تلفنی محمول YY

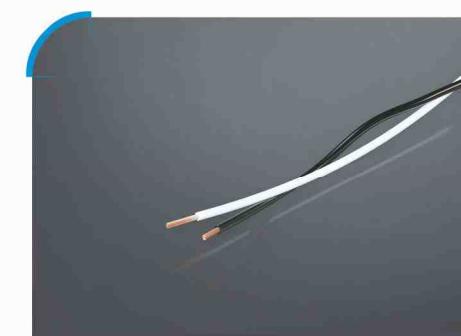
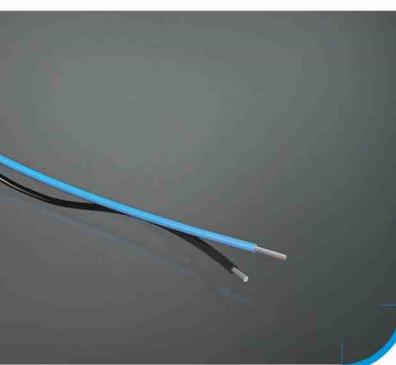
استاندارد: شرکت مخابرات ایران(TCI)
 ولتاژ ایمنی: 400v
 ساختمان: هادی از جنس مفتول مسی نرم
 عایق: از جنس PVC
 مواد مصرف: برای سیستمی تأسیسات تلفن، داخل
 ساختمان ها، بطور آزاد و یا داخل لوگه

سیم تلفنی محمول ۷

VDE 0815-0812, (TCI)
 ولتاژ ایمنی: 400v
 ساختمان:
 هادی از جنس مفتول مسی نرم
 عایق: از جنس PVC
 مواد مصرف: برای سیستمی تأسیسات تلفن، داخل
 ساختمان ها، بطور آزاد و یا داخل لوگه

Jumper Wire Y

Standard: TCI, VDE 0815/0812
 Rated Voltage: 400V
 Construction:
 Conductor: Plain Annealed
 Insulation: PVC Insulation
 Application: For Wiring Telephone
 And Installation In Premises.



Telephone Cable (JYY)

Standard: ASTM B3-95
 Construction:
 conductor: inflexible copper (class1)
 insulation: PVC
 Sheath: PVC
 Sheath Color: white
 Application: Telephone signal connection and transmission and for intercom speech in building

کابل های تلفنی

استاندارد: ASTM B3-95

ساختمان:

هادی: مس مغناول کلاس ۱
 PVC: پلک روتین: سفید
 عایق: PVC
 مواد مصرف: انتقال و ارتباط خطوط تلفن یا فون در داخل ساختمان

| No. Of pair | No. Of Strands X Dia. | Insulation Thickness | Sheath Thickness | Max. Conductor Resistance at 20°C | Overall Diameter | Weight |
|-------------|-----------------------|----------------------|------------------|-----------------------------------|------------------|--------|
| ... | mm | mm | mm | (Ω / km) | mm | kg/km |
| 1 | 3x0.40 | 0.185 | 0.6 | 139 | 3.4 | 13 |
| 2 | 5x0.40 | 0.185 | 0.6 | 139 | 4.1 | 20 |
| 3 | 7x0.40 | 0.185 | 0.6 | 139 | 4.7 | 26 |
| 4 | 9x0.40 | 0.185 | 0.6 | 139 | 5.2 | 31 |
| 5 | 11x0.40 | 0.185 | 0.6 | 139 | 5.6 | 37 |
| 6 | 13x0.40 | 0.185 | 0.7 | 139 | 6 | 42 |
| 7 | 15x0.40 | 0.185 | 0.7 | 139 | 7 | 64 |
| 8 | 17x0.40 | 0.185 | 0.7 | 139 | ----- | ----- |
| 9 | 19x0.40 | 0.185 | 0.7 | 139 | ----- | ----- |
| 10 | 21x0.40 | 0.185 | 0.8 | 139 | ----- | ----- |
| 20 | 41x0.40 | 0.185 | 0.8 | 139 | ----- | ----- |

کابل های تلفنی با قطر منظری ۰/۴۰ میلیمتر

| No. Of pair | No. Of Strands X Dia. | Insulation Thickness | Sheath Thickness | Max. Conductor Resistance at 20°C | Overall Diameter | Weight |
|-------------|-----------------------|----------------------|------------------|-----------------------------------|------------------|--------|
| 1 | 3 x 0.50 | 0.2 | 0.65 | 90 | 3.50 | 14.5 |
| 2 | 5 x 0.50 | 0.2 | 0.65 | 90 | 3.60 | 16 |
| 3 | 7 x 0.50 | 0.2 | 0.70 | 90 | 4.40 | 21 |
| 4 | 9 x 0.50 | 0.2 | 0.75 | 90 | 5.00 | 26 |
| 5 | 11 x 0.50 | 0.2 | 0.85 | 90 | 5.50 | 32 |
| 6 | 13 x 0.50 | 0.2 | 0.85 | 90 | 6.00 | 36 |
| 7 | 15 x 0.50 | 0.2 | 0.85 | 90 | 6.20 | 40 |
| 8 | 17 x 0.50 | 0.2 | 0.90 | 90 | 6.50 | 44 |
| 9 | 19 x 0.50 | 0.2 | 0.90 | 90 | 6.80 | 47 |
| 10 | 21 x 0.50 | 0.2 | 0.90 | 90 | 7.10 | 52 |
| 20 | 41 x 0.50 | 0.2 | 0.90 | 90 | ----- | ----- |

کابل های تلفنی با قطر منظری ۰/۵۰ میلیمتر

Telephone**Drop wires J-2YT**

Standard: TCI
 Rated Voltage : 400 v
 Construction:
 Conductor: Plain Annealed Copper
 Conductor 0.9 mm Diameter Steel Wire With 1.2 mm Diameter
 Sheath Made Of Black PE
 Application: For Connecting Subscribers On Poles Or Along External Walls

دوبل هوایی

استاندارد: شرکت مخابرات ایران (TCI)

وولت ایمپ: 400 v

ساختمان:

داده: هادی از جنس مس اندیل شده سبیم مهار از مغناول
 قفل‌دیگار: ایجاده، عایق پلی اتلن میکری
 مواد مصرف: برای ارتباط جعبه های تقسیم نصب شده روی ببر و بووار

| No. Conductor Dia | Max . Of Conductor Resistance at 20°C | Insulation Thickness | Max.Of Resistance Unbalance | Mutual Capacitance | Weight | Min.Of Insulation Resistance | Min.Of Dielectric Strength at 15Kv (rms) |
|-------------------|---------------------------------------|----------------------|-----------------------------|--------------------|--------|------------------------------|--|
| mm | Ω/Km | mm | % | nF/Km | Kg/Km | MΩ/Km | S |
| 2x0.9+1.2 | 28 | 0.8 | 4.5 | 39±2 | 35 | 5000 | 5 |
| 2x0.6+0.7 | 65 | 0.8 | 4.5 | 39±2 | 21 | 5000 | 5 |



JIS COAXIAL CABLE

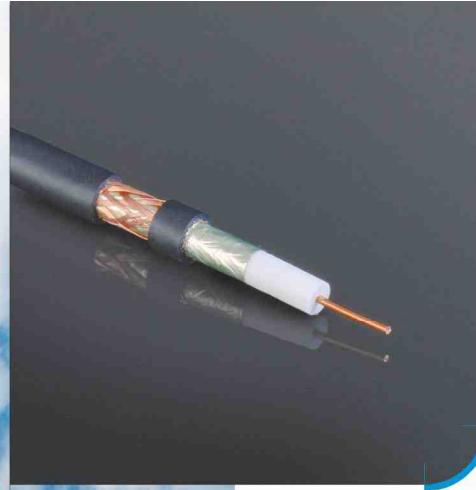
استاندارد: IEC (96), JIS
 ساخته: هادی از مغناول مس نرم شده با یا بدون
 حفاظ آنتروپاتیک یک لایه نوار الوبینوم - بل استرس
 پاشد، حفاظت مسی سیم ساده با قلچ انداز بتصویر باقیه
 شده
 عایق: پلی اتيلن
 PVC
 مواد مصرف: برای اتصال آنتن تلویزیون و ارسال سیگنال
 های رادیوی و مصارف عمومی

JIS COAXIAL CABLE

Standard: IEC (96) , JIS
 Construction: Plain Annealed Copper Wire
 Shielded Al .Foil & Plain
 Copper Wire, Braided, Ccam
 Insulation: PE or forme PE
 Sheathed: PVC
 Application: Connection For color TV Antenna
 and General Purposes Transmission of RF
 Signals



| Type of cable | Inner conductor Dia. | Insulation Thickness | Aluminum Foil Thickness | No. of shield braiding | Sheath Thickness | Mean Overall Dia. | Weight | Impedance | Test voltage |
|--------------------------|----------------------|----------------------|-------------------------|------------------------|------------------|-------------------|--------|-----------|--------------|
| --- | mm | mm | mm | mm | mm | mm | Kg/Km | Ω | V |
| 2.5C-2V Microphone cable | 1x0.4 | 1.0 | 0.035 | 16x6x0.12 | 0.5 | 4.0 | 25 | 75 | 1000 |
| 3C-2V | 7x0.20 | 1.0 | 0.035 | 16x3x0.15 | 0.5 | 4.0 | 22 | 75 | 1000 |
| 4.5C-2V | 1x0.50 | 1.25 | 0.035 | 16x3x0.16 | 0.8 | 5.0 | 31 | 75 | 1000 |
| 7C-2V | 1x1 | 1.8 | 0.035 | 16x4x0.16 | 0.9 | 6.5 | 51 | 75 | 1000 |
| 10C-2V | 7x0.40 | 3.0 | 0.035 | 16x12x0.18 | 1.1 | 10.4 | 140 | 75 | 1000 |
| | 7x0.50 | 3.9 | 0.035 | 16x15x0.20 | 1.3 | 13 | 220 | 75 | 1000 |



Coaxial Cable

 RG COAXIAL CABLE

استاندارد: RG COAXIAL CABLE
 ساخته:
 هادی: مغناول مس کلاس ۱
 شلیلد: سیم بالائی مس یافته شده
 عایق: قوم پلی اتیلن سید
 PVC
 مواد مصرف: برای اتصال آنتن تلویزیون رنگی و
 ارسال سیگنال های رادیوی و مصارف عمومی

| Type of cable | Inner conductor Dia. | Insulation Thickness | No. of shield braiding | Sheath Thickness | Mean Overall Dia. | Weight | Capacitance | Attenuation | Impedance | Test voltage |
|---------------|----------------------|----------------------|------------------------|------------------|-------------------|--------|-------------|-------------|-----------|--------------|
| --- | mm | mm | mm | mm | mm | kg/km | nf/km | db/km | Ω | V(rms) |
| RG11/U copper | 7x0.40 | 3 | 16x12x0.18 | 1.1 | 10.1-10.2 | 136 | 67±3 | 75 | 75±3 | 2000 |
| RG6/U copper | 1x1.02 | 1.8 | 16x5x0.16 | 0.8 | 6.9-7.1 | 54 | 67±3 | 69 | 75±3 | 2000 |
| RG59/U | 1x0.65 | 1.5 | 16x7x0.16 | 0.9 | 6.20-6.40 | 44 | 67±3 | 52 | 75±3 | 2000 |
| RG58AU | 19x0.18 | 1.40 | 16x7x0.13 | 0.8 | 4.90-5.10 | 40 | 67±3 | 75 | 75±3 | 2000 |

Cat6 and Cat5e Cables

(TYPE 2) Standard : American standard
استاندارد آمریکا
ANSI-TIA-568 B

| ACR-N db /100m | Insertion loss db/100m | PS Next db/100m | Next db/100m | Return loss db/100m | (TYPE 1): European standard استاندارد اروپا IEC 11801 | | | | (F) فرکانس MHz | تیپ کابل گروه کابل |
|-------------------|------------------------------|--------------------|-----------------|------------------------|--|------------------------------|--------------------|-----------------|----------------------|-----------------------|
| | | | | | ACR-N db /100m | Insertion loss db/100m | PS Next db/100m | Next db/100m | | |
| | | | | | Min 22 | Max 7.1 | ..... | Min 28.9 | Min 15 | Cat5 |
| | | | | | Min 14.5 | Max 9.8 | ..... | Min 24.2 | Min 15 | UTP |
| | | | | | Min 8.8 | Max 12.2 | ..... | Min 21.1 | Min 15 | SFTP |

IEC CLASS C

| Min 39.7 | Max 7.2 | Min 43.9 | Min 46.9 | Min 17 | Min 39.7 | Max 7.2 | Min 43.9 | Min 46.9 | Min 17 | Cat5e |
|----------|----------|----------|----------|--------|----------|----------|----------|----------|--------|-------|
| Min 18.7 | Max 16.5 | Min 32.2 | Min 35.2 | Min 13 | Min 18.7 | Max 16.5 | Min 32.2 | Min 35.2 | Min 13 | UTP |
| Min 6.1 | Max 24 | Min 27.1 | Min 30.1 | Min 10 | Min 6.1 | Max 24 | Min 27.1 | Min 30.1 | Min 10 | SFTP |

IEC CLAS D

| Min 50.1 | Max 6.4 | Min 53.9 | Min 56.5 | Min 19 | Min 39.7 | Max 7.2 | Min 43.9 | Min 46.9 | Min 17 | Cat6 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|------|
| Min 30.4 | Max 14.6 | Min 42.2 | Min 45 | Min 15 | Min 18.7 | Max 16.5 | Min 32.2 | Min 35.2 | Min 13 | UTP |
| Min 18.6 | Max 21.3 | Min 37 | Min 39.9 | Min 12 | Min 6.1 | Max 24 | Min 27.1 | Min 30.1 | Min 10 | SFTP |
| Min 10.2 | Max 26.7 | Min 34 | Min 36.9 | Min 10.2 | ..... | ..... | ..... | ..... | 100 | |
| Min -2.8 | Max 35.9 | Min 30.2 | Min 33.1 | Min 8 | ..... | ..... | ..... | ..... | 250 | |

ANSI-TIA TSB 155

IEC CLASS EA

| Min 43.1 | Max 6.4 | Min 53.9 | Min 56.5 | Min 19 | Min 50 | Max 6.4 | Min 53.9 | Min 56.5 | Min 19 | Cat6A |
|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-------|
| Min 29.3 | Max 14.6 | Min 42.2 | Min 45 | Min 15 | Min 30.4 | Max 14.6 | Min 42.2 | Min 45 | Min 15 | UTP |
| Min 23.3 | Max 20.9 | Min 37.1 | Min 39.9 | Min 12 | Min 19 | Max 20.9 | Min 37.1 | Min 39.9 | Min 12 | SFTP |
| Min 19.7 | Max 25.9 | Min 34 | Min 36.9 | Min 10.2 | Min 10.2 | Max 25.9 | Min 34 | Min 36.9 | Min 10.2 | |
| Min 15.3 | Max 36 | Min 30.2 | Min 33.1 | Min 8 | Min -0.8 | Max 33.9 | Min 30.2 | Min 33.1 | Min 8 | 250 |
| Min 11.2 | Max 46.9 | Min 24.5 | Min 26.8 | Min 6 | Min -14.1 | Max 43.7 | Min 26.6 | Min 29.6 | Min 6 | 400 |
| Min 9.3 | Max 53.3 | Min 20.5 | Min 22 | Min 6 | Min -21.4 | Max 49.3 | Min 24.9 | Min 27.9 | Min 6 | 500 |

کابل فلزی توپولیش شده - UTP : Unshielded twisted pair
کابل فلزی توپولیش شده با پوشش فلزی - FTP : Foil tape twisted Twisted pair
کابل فلزی توپولیش شده با پوشش فلزی و شیلدینگ مسی - SFTP -



Cat5e and cat6 Cable

working cables are used to connect one network device to other network devices or to connect two or more computers to share printer, scanner etc.

Different types of network cables like Coaxial cable, Optical fiber cable, Twisted pair cables are used depending on the network's topology, protocol and size. Twisted pair cabling is a form of wiring in which are twisted together for the purposes of canceling out electromagnetic interference (EMI) from other pairs and from external sources.

This type of cable is used for home and corporate ethernet network.

There are three types of twisted pair cables: shielded(shielded,stp), unshielded(utp), unshielded(UTP) and shielded(ftp,sftp). Cat5e, Cat6, Cat6A, Cat7, Cat8 and 1-pair twisted cable available with quick connect and LSZH cable sheaths. Conforms to the Category 5 OR 6 networking standard, ideally suited for Gigabit Ethernet and high-speed data applications.

Conforms to EN 50173, ANSI/TIA/EIA-568B and IEC 11801

کابل های شبکه کابل

کابل های شبکه دارای استانداردهای متعدد و خلاصه های مختلفی می باشد که از اینها بر این ترتیب آن شامل:

cat5, cat6, cat7, cat5
می باشند که سرعت و قدرت باند عالی دارند که عالی است از:
Cat5: 16MHz, Cat5e: 200MHz, Cat6: 250MHz
Cat6A: 500MHz, Cat7: 1000MHz
همه ترین مرتب گروه هایی که از سرعت و پهنای این کابل را در پنهان نهاده اند نسبت اسقاطه از Cat6, Cat6A, Cat7, Cat8 و پس از آن دارند که عوامل مانند حجم داده (اسپلیت) نسبت به Cat5 بستگی ندارند و معمولاً جزوی از سرعتی که در این کابل دارند می باشند.

معادل تقریبی 16 برابر پهنای بخشیده شده است.

Screen Cables

Screen Cables (PVC) / J-2Y(ST) Y

Standard: TCI & VDE 0815 ,ASTM D4565
 Rated Voltage : 200V
 Construction: Plain Annealed Copper, Conductor Diameter 0.6 mm, Core wrapping, shield made of plastic-coated, aluminum foil with earth wire Dia.0.40 mm
 Insulation: PE, application: For Telephone Sheathed: gray PVC
 and signal transmits direct laying in doors on or under plaster and outdoors. Under ground is not permissible.

کابل های مخابراتی با عایق پلی اتیلن و روکش PVC

استاندارد: شرکت مخابرات ایران (TCI) VDE0815, ASTM D4565 - 2006
 ولتاژ کار: 200 ولت
 ساخته های از جنس مس اینل شده و یا مس به قطر 0.60 میلیمتر بروش خفاف الکتریسیته تک کابل از یک توپولی نوار پلی است. نوار پلی اسپر نووار پلی است. این میتواند به همراه رسی فرین به قدر 0.40 مسی / متر پلی اتیلن / غلاف پلی اتیلن مشک، مواد معمولی در ناسناسهای تلفنی، حراج ساختمان و شکه های محلی در زیرزمین مورد مصرف قرار گیرد. نور و صرف زیزی از آن مجاز نیست.

| No . Of Parise | Sheath Thickness | Overall Diameter | Max . Of Conductor Resistance | Insulation Resistance | Mutal Capacitance At 1000-HZ | Dielectric Strength | | | Weight |
|----------------|------------------|------------------|-------------------------------|-----------------------|------------------------------|---------------------------------------|--------------------------------|-------|--------|
| | | | | | | One Conductor With All Others 2Minute | Between Core To Shield 2Minute | | |
| | | | 0.60 | 0.40 | | | | | |
| -- | mm | mm | Ω/Km | $M\Omega/Km$ | nf/Km | (V)AC | (V)AC | Kg/Km | |
| 2 | 0.8 | 5.8 | 65 | 147 | 500 | 100 | 500 | 35 | |
| 4 | 0.8 | 7.1 | 65 | 147 | 500 | 100 | 500 | 56 | |
| 6 | 1 | 8.5 | 65 | 147 | 500 | 100 | 500 | 82 | |
| 8 | 1 | 9.4 | 65 | 147 | 500 | 100 | 500 | 100 | |
| 10 | 1 | 10.1 | 65 | 147 | 500 | 100 | 500 | 118 | |
| 20 | 1.1 | 12.4 | 65 | 147 | 500 | 100 | 500 | 200 | |
| 30 | 1.2 | 14.5 | 65 | 147 | 500 | 100 | 500 | 291 | |
| 40 | 1.3 | 16.5 | 65 | 147 | 500 | 100 | 500 | 380 | |
| 50 | 1.3 | 18.1 | 65 | 147 | 500 | 100 | 500 | 460 | |
| 70 | 1.5 | 21.3 | 65 | 147 | 500 | 100 | 500 | 638 | |
| 100 | 1.8 | 25.5 | 65 | 147 | 500 | 100 | 500 | 917 | |
| 150 | 1.8 | 30.3 | 65 | 147 | 500 | 100 | 500 | 1311 | |
| 200 | 1.8 | 34.4 | 65 | 147 | 500 | 100 | 500 | 1707 | |



Automotive Wire

کابل های خودرویی شیلد دار با فویل

T1,T2

استاندارد:

ساده: از جنس مس و کلاس 2

عایق: از جنس حرارت 90 درجه PVC

شیلد: یک رشته سیم کلاس 5 مسی قلع آندود شده

به عنوان ارت به همراه یک لایه فویل الومینیوم

ریگن: از جنس حرارت 90 درجه PVC

استاندارد:

ساده: از جنس مس و کلاس 2

عایق: از جنس حرارت 105 درجه PVC

شیلد: یک رشته سیم کلاس 5 مسی قلع آندود شده

به عنوان ارت به همراه یک لایه فویل الومینیوم

ریگن: از جنس حرارت 105 درجه PVC

Automotive cables with Shielded T1,T2

T1 Construction

Conductor: copper, Class 2

Insulation: PVC 90°C

Shield: One class 5 copper wires as the Earth

Summit lined with a layer of aluminum foil

Sheath: PVC 90°C

T2 Construction

Conductor: copper, Class 2

Insulation: PVC 105°C

Shield: One class 5 copper wires as the Earth

Summit lined with a layer of aluminum foil

Sheath: PVC 105°C

سیم خودرویی

استاندارد: JASO D611, KES-D-C626

استاندارد:

ساده: از جنس مس ذمر و تایید شده

عایق: از جنس PVC کاوش قطر باته بصورت

خط در این خط

مواد مصرف: سیمکنکی داخل خودرو

AVS (Japan) PSA (B251110) (France)

Standard: JASO D611, KES-D-C626

Construction: Annealed Stranded Copper Conductor Thin Wall PVC

Insulation

Application: Used For Automotive

Wiring

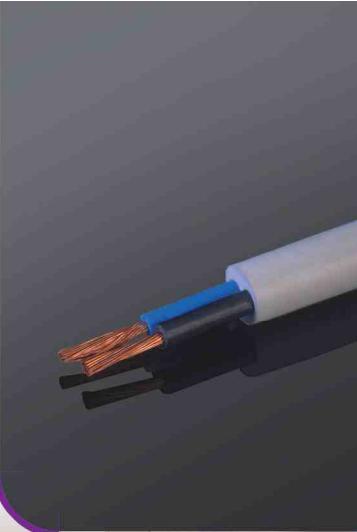


| Nominal Size | No.Of Strand x Dia | Outside Dia | Calculated Cross Sectional Area | | Outside Dia | | Insulation Thickness | Max Of Conductor Resistance at 20°C |
|--------------|--------------------|-------------|---------------------------------|-----|-------------|-----|----------------------|-------------------------------------|
| | | | mm² | mm | mm | mm | | |
| mm² | mm | mm | mm² | mm | mm | mm | mm | Ω/km |
| 0.3 | 7x0.26 | 0.8 | 0.3716 | 1.9 | 1.9 | 1.9 | 0.5 | 50.2 |
| 0.5 | 7x0.32 | 1.0 | 0.5629 | 2.1 | 2.1 | 2.1 | 0.5 | 32.7 |
| 0.85a | 16x0.26 | 1.2 | 0.8494 | 2.3 | 2.3 | 2.3 | 0.5 | 22 |
| 0.85b | 11x0.32 | 1.2 | 0.8846 | 2.3 | 2.3 | 2.3 | 0.5 | 20.8 |
| 1.25 | 16x0.32 | 1.5 | 1.287 | 2.6 | 2.6 | 2.6 | 0.5 | 14.3 |
| 2 | 26x0.32 | 1.9 | 2.091 | 3.1 | 3.1 | 3.1 | 0.5 | 8.81 |
| 3 | 41x0.32 | 2.4 | 3.297 | 3.8 | 3.8 | 3.8 | 0.6 | 5.59 |
| 5 | 65x0.32 | 3.0 | 5.228 | 4.6 | 4.6 | 4.6 | 0.7 | 3.52 |

سیم های خودرویی با عایق کاوش قدر باته

Flexible Flat Cables

Standard: ISIRI60752, IEC 60227
 Rated Voltage: 300/500 v
 Construction: 2 Conductors very fine annealed copper wire
 Insulation: PVC Insulation
 Sheath White PVC
 Application: For connecting portable application Mechanical stresses.
 are low appliances Application for heating appliances is not permissible

**کابل های افشار کیسه ای**

استاندارد: ISIRI(607)52, IEC 60227
 ولتاژ اسپری: 300/500 v

ساخته: هادی از جنس مس تاییده شده با قابلیت انعطاف پذیری

علقق: از جنس PVC
 غافل: از جنس PVC

مورد مصرف: برای ارتقاط و سبلیل الکتری قابل حمل در محل های کفشار مکانیکی کم و وجود دارد
 محل های اه شار مکانیکی کم وجود دارد
 استفاده در محیط بالا مجاز نمی باشد.

Flat Non Sheathed Cord Cables

Standard: ISIRI607-42 & IEC 60227
 Rated Voltage: 300/300 v
 Structure: 2 Conductors very fine annealed copper wire
 Insulation: PVC Insulation
 Application: For connecting portable application mechanical stresses are low appliances application for heating appliances is not permissible

سیم نایلون

استاندارد: ISIRI607-42 & IEC 60227

ولتاژ اسپری: 300/300 v

ساخته: هادی از جنس مس تاییده شده با قابلیت انعطاف پذیری

علقق: از جنس PVC

غافل: معرف: برای ارتقاط و سبلیل الکتری قابل حمل در محل های کفشار مکانیکی کم و وجود دارد
 استفاده در محیط بالا مجاز نمی باشد.

Flexible Flat Cables



| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Mean overall dia | | Sheath Thickness | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C |
|-----------------------|----------------------|----------------------|------------------|---------|------------------|--------|-----------------------------------|--------------------------|
| | | | min | max | | | | |
| mm ² | mm | mm | mm | mm | mm | Kg/Km | (Ω /Km) | (A) |
| 2*0.5 | 16*0.2 | 0.5 | 3*4.9 | 3.7*5.9 | 0.6 | 30 | 39 | 6 |
| 2*0.75 | 24*0.2 | 0.5 | 3.2*5.2 | 3.8*6.3 | 0.6 | 36 | 26 | 9 |
| 2*0.5 | 16*0.2 | 0.5 | 4.6 | 5.9 | 0.6 | 36 | 39 | 6 |
| 2*0.75 | 24*0.2 | 0.5 | 4.9 | 6.3 | 0.6 | 44 | 26 | 9 |
| 3*0.5 | 16*0.2 | 0.5 | 4.9 | 6.3 | 0.6 | 44 | 39 | 6 |
| 3*0.75 | 24*0.2 | 0.5 | 5.2 | 6.7 | 0.6 | 55 | 26 | 9 |

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Mean overall dia | | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C |
|-----------------------|----------------------|----------------------|------------------|---------|--------|-----------------------------------|--------------------------|
| | | | min | max | | | |
| mm ² | mm | mm | mm | mm | Kg/Km | (Ω /Km) | (A) |
| 2*0.5 | 24*0.16 | 0.8 | 2.4*4.9 | 3*5.9 | 21 | 39 | 6 |
| 2*0.75 | 37*0.16 | 0.8 | 3.1*6.3 | 3.8*6.3 | 27 | 26 | 9 |

Flexible PVC Insulated Cables

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Sheath Thickness | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C | Min insulation resistance at 70°C | Voltage |
|--------------------------------|----------------------|----------------------|------------------|--------|-----------------------------------|--------------------------|-----------------------------------|----------|
| N ^o mm ² | mm | mm | mm | Kg/Km | (Ω / Km) | (A) | MΩKm | V |
| 2×0.75 | 24×0.20 | 0.6 | 0.8 | 43 | 26 | 13 | 0.011 | 300/500 |
| 2×0.75 | 24×0.20 | 0.6 | 0.8 | 56 | 26 | 13 | 0.011 | 300/500 |
| 2×1 | 32×0.20 | 0.6 | 0.8 | 64 | 195 | 16 | 0.010 | 300/500 |
| 2×1.5 | 30×0.25 | 0.7 | 0.8 | 83 | 133 | 20 | 0.010 | 300/500 |
| 2×2.5 | 50×0.25 | 0.8 | 1.0 | 125 | 7.98 | 27 | 0.009 | 300/500 |
| 2×4 | 56×0.30 | 1.0 | 1.8 | 245 | 4.95 | 36 | 0.0076 | 600/1000 |
| 2×6 | 84×0.30 | 1.0 | 1.8 | 310 | 3.3 | 44 | 0.0065 | 600/1000 |
| 2×10 | 80×0.40 | 1.0 | 1.8 | 415 | 1.91 | 61 | 0.0063 | 600/1000 |
| 2×16 | 126×0.40 | 1.0 | 1.8 | 560 | 1.21 | 82 | 0.0046 | 600/1000 |
| 2×25 | 196×0.40 | 1.2 | 1.8 | 940 | 0.78 | 108 | 0.004 | 600/1000 |
| 3×0.75 | 24×0.20 | 0.6 | 0.8 | 65 | 26 | 13 | 0.011 | 300/500 |
| 3×1 | 32×0.20 | 0.6 | 0.8 | 75 | 195 | 16 | 0.010 | 300/500 |
| 3×1.5 | 30×0.25 | 0.7 | 0.9 | 105 | 133 | 20 | 0.010 | 300/500 |
| 3×2.5 | 50×0.25 | 0.8 | 1.1 | 165 | 7.98 | 27 | 0.009 | 300/500 |
| 3×4 | 56×0.30 | 1.0 | 1.8 | 295 | 4.95 | 36 | 0.0076 | 600/1000 |
| 3×6 | 84×0.30 | 1.0 | 1.8 | 365 | 3.3 | 44 | 0.0065 | 600/1000 |
| 3×10 | 80×0.40 | 1.0 | 1.8 | 515 | 1.91 | 61 | 0.0063 | 600/1000 |
| 3×16 | 115×0.40 | 1.0 | 1.8 | 710 | 1.21 | 82 | 0.0046 | 600/1000 |
| 3×25 | 179×0.40 | 1.2 | 1.8 | 910 | 0.78 | 108 | 0.0076 | 600/1000 |
| 4×0.75 | 24×0.20 | 0.6 | 0.8 | 77 | 26 | 13 | 0.011 | 300/500 |
| 4×1 | 32×0.20 | 0.6 | 0.9 | 93 | 195 | 16 | 0.010 | 300/500 |
| 4×1.5 | 30×0.25 | 0.7 | 1 | 130 | 133 | 20 | 0.010 | 300/500 |
| 4×2.5 | 50×0.25 | 0.8 | 1.1 | 193 | 7.98 | 27 | 0.009 | 300/500 |
| 4×4 | 56×0.30 | 1.0 | 1.8 | 345 | 4.95 | 36 | 0.0076 | 600/1000 |
| 4×6 | 84×0.30 | 1.0 | 1.8 | 450 | 3.3 | 44 | 0.0065 | 600/1000 |
| 4×10 | 80×0.40 | 1.0 | 1.8 | 640 | 1.91 | 61 | 0.0063 | 600/1000 |
| 4×16 | 115×0.40 | 1.0 | 1.8 | 880 | 1.21 | 82 | 0.0046 | 600/1000 |
| 4×25 | 179×0.40 | 1.2 | 1.8 | 1300 | 0.78 | 108 | 0.0076 | 600/1000 |
| 5×0.75 | 24×0.20 | 0.6 | 0.9 | 92 | 26 | 13 | 0.011 | 300/500 |
| 5×1 | 32×0.20 | 0.6 | 0.9 | 109 | 195 | 16 | 0.010 | 300/500 |
| 5×1.5 | 30×0.25 | 0.7 | 1.1 | 160 | 133 | 20 | 0.010 | 300/500 |
| 5×2.5 | 50×0.25 | 0.8 | 1.2 | 235 | 7.98 | 27 | 0.009 | 300/500 |
| 5×4 | 56×0.30 | 1.0 | 1.8 | 420 | 4.95 | 36 | 0.0076 | 600/1000 |
| 5×6 | 84×0.30 | 1.0 | 1.8 | 545 | 3.3 | 44 | 0.0065 | 600/1000 |
| 5×10 | 80×0.40 | 1.0 | 1.8 | 785 | 1.91 | 61 | 0.0063 | 600/1000 |
| 5×16 | 115×0.40 | 1.0 | 1.8 | 1080 | 1.21 | 82 | 0.0046 | 600/1000 |
| 5×25 | 179×0.40 | 1.2 | 1.9 | 1800 | 0.78 | 108 | 0.0076 | 600/1000 |

کابل های افشاران 300/500 ولت و 0.6 کیلوولت

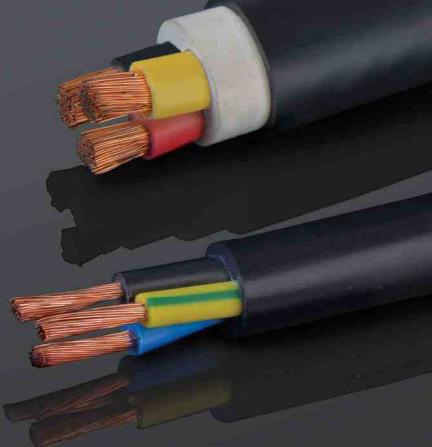
استاندارد:

ISIRI(607)53 ,ISIRI 3569 IEC 60227, IEC 60502
500/300v, 0.6/1Kv

ساخته شده با 5 شش مادی از جنس مس
عایق PVC, غلاف PVC
مواد مضری در محل های خشک برای مصارف عمومی الکتری
در فشار متوسط مکانیکی

Flexible PVC Insulated & Sheathed
Cables 300/500 & 0.6/1KV

Standard:
ISIRI (607)53, ISIRI 3569, IEC 60227,
IEC 60502
Rated Voltage: 300/500V, 0.6/1KV
Construction: 2,3,4 or 5 conductors
PVC Insulation, PVC Sheath
Application: In Damp and Dry Rooms
For Medium Mechanical Stress





Flexible Stranded Conductor

Standard: ISIRI 607/06, (607)02, IEC 60227
Rated Voltage: 300/500 v & 450/750 v
Construction: Fine Bunched Annealed
PVC Insulation
Application: In Dry Indoors Panels and
Devices In Electric Direct Laying In Plaster Is
Not Permissible

سیم با هادی جند مفتولی

استاندارد: ISIRI (607)06, (607)02, IEC 60227
 ولتاژ ایمنی: 300/500v, 450/750v
ساختمان: هادی از جنس پیروزی و تایید شده عالی کیفیت روی بسیار
مواد مصرف: در محل های خشک
برای اتصالات مدارهای روشنایی و فومن های الکتری
استفاده از آن به طور مستقیم زیر دیوار مجاز نمی باشد.

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Mean Overall Dia | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C | Min insulation resistance at 70°C | MΩKm |
|-----------------------|----------------------|----------------------|------------------|--------|-----------------------------------|--------------------------|-----------------------------------|--------|
| | | mm | mm | Kg/Km | (Ω/km) | (A) | | |
| | | min | max | | | | | |
| mm ² | mm | mm | mm | Kg/km | (Ω/km) | (A) | | MΩKm |
| 0.50 | 16x0.20 | 0.60 | 2.1 | 2.5 | 9 | 39 | 6 | 0.015 |
| 0.75 | 24x0.20 | 0.60 | 2.2 | 2.7 | 12 | 26 | 9 | 0.013 |
| 1 | 32x0.20 | 0.60 | 2.4 | 2.8 | 15 | 19.5 | 11 | 0.012 |
| 1.5 | 30x0.25 | 0.7 | 2.8 | 3.4 | 21 | 13.3 | 16 | 0.011 |
| 2.5 | 50x0.25 | 0.8 | 3.4 | 4.1 | 32 | 7.98 | 21 | 0.009 |
| 4 | 56x0.30 | 0.8 | 3.9 | 4.8 | 48 | 4.95 | 28 | 0.007 |
| 6 | 84x0.30 | 0.8 | 4.4 | 5.3 | 68 | 3.3 | 36 | 0.006 |
| 10 | 80x0.40 | 1 | 5.7 | 6.8 | 115 | 1.91 | 49 | 0.0056 |
| 16 | 115x0.40 | 1 | 6.7 | 8.1 | 155 | 1.21 | 65 | 0.0046 |
| 25 | 179x0.40 | 1.2 | 8.4 | 10.2 | 240 | 0.78 | 85 | 0.0044 |
| 35 | 259x0.40 | 1.2 | 9.7 | 11.7 | 336 | 0.554 | 105 | 0.0038 |
| 50 | 368x0.40 | 1.4 | 11.5 | 13.9 | 476 | 0.386 | 140 | 0.0037 |
| 70 | 341x0.50 | 1.4 | 13.2 | 16 | 690 | 0.272 | 175 | 0.0032 |
| 95 | 450x0.50 | 1.6 | 15.1 | 18.2 | 910 | 0.206 | 210 | 0.0032 |

Flexible Solid

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Mean Overall Dia | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C | Min insulation resistance at 70°C |
|-----------------------|----------------------|----------------------|------------------|--------|-----------------------------------|--------------------------|-----------------------------------|
| | | mm | mm | mm | (Ω/km) | (A) | MΩKm |
| | | min | max | | | | |
| mm ² | | mm | mm | mm | (Ω/km) | (A) | MΩKm |
| 0.5 | 1x0.80 | 0.6 | 1.9 | 2.3 | 8.5 | 36 | 6.5 |
| 0.75 | 1x0.97 | 0.6 | 2.1 | 2.5 | 11 | 24.5 | 10 |
| 1 | 1x1.13 | 0.6 | 2.2 | 2.7 | 14 | 18.1 | 12 |
| 1.5 | 1x1.38 | 0.7 | 2.6 | 3.2 | 20 | 12.1 | 16 |
| 1.5 | 7x0.50 | 0.7 | 2.7 | 3.3 | 20 | 12.1 | 16 |
| 2.5 | 1x1.78 | 0.8 | 3.2 | 3.9 | 31 | 7.41 | 21 |
| 2.5 | 7x0.67 | 0.8 | 3.3 | 4 | 33 | 7.41 | 21 |
| 4 | 1x2.25 | 0.8 | 3.6 | 4.4 | 46 | 4.61 | 28 |
| 4 | 7x0.85 | 0.8 | 3.8 | 4.6 | 48 | 4.61 | 28 |
| 6 | 1x2.76 | 0.8 | 4.1 | 5.0 | 67 | 3.08 | 35 |
| 6 | 7x1.04 | 0.8 | 4.3 | 5.2 | 70 | 3.08 | 35 |
| 10 | 1x3.57 | 1 | 5.3 | 6.4 | 110 | 1.83 | 48 |
| 10 | 7x1.35 | 1 | 5.6 | 6.7 | 113 | 1.83 | 48 |
| 16 | 1x4.70 | 1 | 6.4 | 7.6 | 180 | 1.15 | 65 |
| 25 | 7x2.14 | 1.2 | 8.1 | 9.7 | 278 | 0.727 | 88 |
| 35 | 7x2.52 | 1.2 | 9.0 | 10.9 | 380 | 0.524 | 110 |
| 50 | 19x1.78 | 1.4 | 10.6 | 12.8 | 510 | 0.387 | 130 |
| 70 | 19x2.14 | 1.4 | 12.1 | 14.6 | 720 | 0.268 | 165 |
| 95 | 19x2.52 | 1.6 | 14.1 | 17.1 | 985 | 0.193 | 185 |

Elevator & Lift Cable

| Size | No° Dia | Insulation Thickness | Sheath Thickness | | | Dia Less | Dia Wide | Weight | Voltag |
|-------------------|--------------------|----------------------|---|----------------|----------------|----------|----------|--------|----------|
| | | | The distance between categories in category | Thickness less | Wide thickness | | | | |
| Mm ² n | Mm ² n | mm | mm | mm | mm | mm | mm | Kg/km | --- |
| 3'0.75 | 24 ^{0.20} | 0.6 | 0 | 0.9 | 1.5 | 4.1 | 9.9 | 65 | 300/500v |
| 4'0.75 | 24 ^{0.20} | 0.6 | 0 | 0.9 | 1.5 | 4.1 | 12.2 | 81 | 300/500v |
| 5'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 16.5 | 105 | 300/500v |
| 6'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 17.8 | 125 | 300/500v |
| 9'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 24.8 | 185 | 300/500v |
| 12'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 31.7 | 245 | 300/500v |
| 16'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 40.9 | 316 | 300/500v |
| 18'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 47.5 | 365 | 300/500v |
| 20'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 50.2 | 400 | 300/500v |
| 24'0.75 | 24 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.1 | 59.4 | 480 | 300/500v |
| 3 ⁺ 1 | 32 ^{0.20} | 0.6 | 0 | 0.9 | 1.5 | 4.3 | 10.4 | 75 | 300/500v |
| 4 ⁺ 1 | 32 ^{0.20} | 0.6 | 0 | 0.9 | 1.5 | 4.3 | 12.9 | 95 | 300/500v |
| 5 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 17.4 | 122 | 300/500v |
| 6 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 18.9 | 145 | 300/500v |
| 9 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 26.3 | 275 | 300/500v |
| 12 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 33.8 | 282 | 300/500v |
| 16 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 43.7 | 370 | 300/500v |
| 18 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 50.6 | 425 | 300/500v |
| 20 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 53.6 | 460 | 300/500v |
| 24 ⁺ 1 | 32 ^{0.20} | 0.6 | 1 | 0.9 | 1.5 | 4.3 | 63.5 | 550 | 300/500v |



Elevator and lift cable

Standard: IEC60227, ISIRI607-6

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

Construction:

Conductor: Class 5 Copper

Insulation: PVC

Sheath: PVC

Application: For elevator

کابل های تخت آسانسوری

استاندارد: IEC60227, ISIRI607-6

و قدرت ایمنی: 450/750v, 300/500v

ساختن:

هادی از جنس مس کلاس 5 / عایق: PVC / روکش: از جنس PVC

موارد مصرف:

این نوع کابلها برای آسانسورها و بالابرها در تاسیسات که طول

معلق و از آنها از 35 متر سوت داراند آنها از 1.6 متراً بی تائیه

پیشتر شوده باشند و بروند.

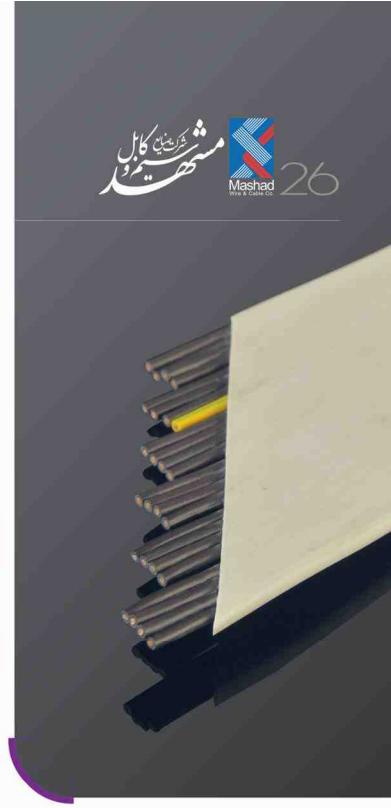
استفاده از این کابلها در موادی که در این محدوده نیستند موضوعی

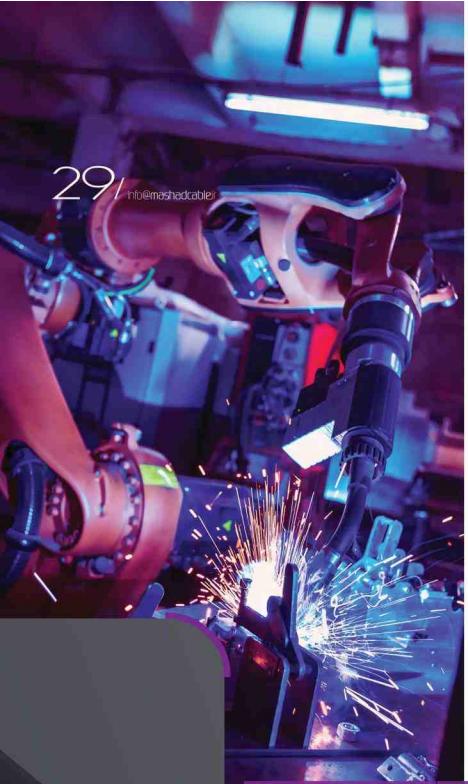
است که بین خردمندانه و سازنده مور بحث فراهم گردد.

این کابل ها علاوه بر تخت صبورت دارد بین قابل تولید می باشد،

که با استانداردهای تبلیغ نهایان داده می شود.

Isiri(607)71c, Isiri(607)71f





| Nominal Cross Section | No. Of Strands X Dia. | Insulation Thickness | Overall Dia. |
|-----------------------|-----------------------|----------------------|--------------|
| mm ² | mm | mm | mm |
| 25 | 19x4x0.20 | 2.0 | 11.4 |
| 35 | 19x5x0.20 | 2.0 | 12.7 |
| 50 | 19x8x0.20 | 2.2 | 14.7 |
| 70 | 37x6x0.20 | 2.4 | 17.2 |

Welding cable (NBR insulation)
 Standard: IEC 1926, ISIRI 196
 Rated Voltage: 450/750V
 Construction: Fine bunched annealed Copper (class 6)
 Nitril Butadiene Rubber insulation
 Application: welding cable
 Color: black
 Temperature: -25°C to +90°C

کابل های جوش با عایق NBR

استاندارد: IEC 1926, ISIRI 196
 ولتاژ امنیتی: 450/750V
 ساختمان: هادی از جنس مس آبل شده کلاس 6
 عایق: NBR/PVC
 مواد مصرفی: کابل جوش
 رنگ: مشکی

| Nominal Cross Section | No. Of Strands X Dia. | Insulation Thickness | Overall Dia. | Max. Conductor Resistance At 20°C | | | AC Voltage test at 5 minute | Voltage |
|-----------------------|-----------------------|----------------------|--------------|-----------------------------------|--------|------------|-----------------------------|---------|
| | | | | Conductor Weight | Weight | AC Voltage | | |
| mm ² | mm | mm | mm | (Ω/km) | kg/km | (V) | 450/750 V | |
| 25 | 19x4x0.20 | 2.0 | 11.4 | 0.78 | 316 | 2500 | 450/750 V | |
| 35 | 19x5x0.20 | 2.0 | 12.7 | 0.554 | 412 | 2500 | 450/750 V | |
| 50 | 19x8x0.20 | 2.2 | 14.7 | 0.386 | 568 | 2500 | 450/750 V | |
| 70 | 37x6x0.20 | 2.4 | 17.2 | 0.272 | 789 | 2500 | 450/750 V | |



Flexible Flat Cables

Flexible Flat Cable

Standard: ISIRI3569, IEC60502
 Rated Voltage: 0.6/1 Kv
 Construction:
 Conductor: Class 5 Copper
 Insulation: PVC
 Sheath: PVC

کابل های تخت موتور چاهی

استاندارد: IEC 60502, ISIRI 3569
 ولتاژ امنیتی: 0.6/1 Kv
 ساختمان:
 هادی از جنس مس کلاس 5
 PVC
 عایق: PVC
 روکش: از جنس

| Size | No* Dia | Insulation Thickness | Sheath Thickness | | | Dia Less | Dia Wide | Weight | Voltage |
|--------------------------------|-----------------|----------------------|------------------|----------------|-----|----------|----------|---------|---------|
| | | | Thickness less | Wide thickness | mm | | | | |
| N ² mm ² | mm ⁿ | mm | mm | mm | mm | mm | mm | mm | mm/KV |
| 3 ²⁵ | 179x0.40 | 1.2 | 1.6 | 20 | 120 | 304 | 1010 | 0.6/1KV | |
| 4 ²⁵ | 179x0.40 | 1.2 | 1.6 | 20 | 120 | 393 | 1323 | 0.6/1KV | |
| 3 ³⁵ | 259x0.40 | 1.2 | 2.2 | 24 | 144 | 348 | 1381 | 0.6/1KV | |
| 4 ³⁵ | 259x0.40 | 1.2 | 2.2 | 24 | 144 | 448 | 1819 | 0.6/1KV | |
| 3 ⁵⁰ | 368x0.40 | 1.4 | 2.3 | 26 | 165 | 410 | 1895 | 0.6/1KV | |
| 4 ⁵⁰ | 368x0.40 | 1.4 | 2.3 | 26 | 165 | 529 | 2500 | 0.6/1KV | |
| 3 ⁷⁰ | 341x0.50 | 1.4 | 2.3 | 26 | 183 | 463 | 2721 | 0.6/1KV | |
| 4 ⁷⁰ | 341x0.50 | 1.4 | 2.3 | 26 | 183 | 600 | 3585 | 0.6/1KV | |
| 3 ⁹⁵ | 450x0.50 | 1.6 | 2.5 | 28 | 207 | 527 | 3555 | 0.6/1KV | |
| 4 ⁹⁵ | 450x0.50 | 1.6 | 2.5 | 28 | 207 | 685 | 4687 | 0.6/1KV | |



Flexible Shielded



Flexible Shielded Cable

Standard:

VDE 0250, IEC 60227-7, ISIRI (607)07

Rated Voltage : 300/500 v

Conductor: Annealed Copper Conductors

Class 5 - Insulation: PVC - Sheath: PVC

The cables and instrumentation applications where high intensity electric fields are applied annoying

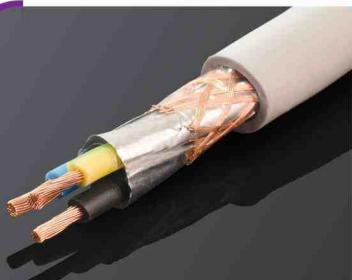
| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | No. Of sheated x Dia | AL/PE | Sheath Thickness | Weight |
|---------------------------------|----------------------|----------------------|----------------------|-------|------------------|--------|
| N ^o /mm ² | mm | mm | mm | | mm | kg/km |
| 2x0.50 | 16x0.2 | 0.6 | 48x0.12 | 20 | 1 | 81 |
| 2x0.75 | 24x0.2 | 0.6 | 48x0.12 | 25 | 1 | 93 |
| 2x1 | 32x0.2 | 0.6 | 48x0.16 | 25 | 1 | 108 |
| 2x1.5 | 30x0.25 | 0.7 | 48x0.16 | 25 | 1 | 135 |
| 2x2.5 | 50x0.25 | 0.8 | 56x0.16 | 30 | 1.3 | 204 |
| 2x4 | 56x0.3 | 0.8 | 64x0.16 | 35 | 1.3 | 260 |
| 2x6 | 84x0.3 | 0.8 | 64x0.16 | 50 | 1.3 | 326 |
| 3x0.50 | 16x0.2 | 0.6 | 48x0.12 | 25 | 1 | 90 |
| 3x0.75 | 24x0.2 | 0.6 | 48x0.12 | 25 | 1 | 104 |
| 3x1 | 32x0.2 | 0.6 | 48x0.16 | 25 | 1 | 121 |
| 3x1.5 | 30x0.25 | 0.7 | 48x0.16 | 30 | 1 | 154 |
| 3x2.5 | 50x0.25 | 0.8 | 56x0.16 | 35 | 1.3 | 234 |
| 3x4 | 56x0.3 | 0.8 | 64x0.16 | 50 | 1.3 | 304 |
| 3x6 | 84x0.3 | 0.8 | 72x0.16 | 50 | 1.3 | 397 |
| 4x0.5 | 16x0.2 | 0.6 | 56x0.12 | 25 | 1 | 103 |
| 4x0.75 | 24x0.2 | 0.6 | 56x0.12 | 25 | 1 | 120 |
| 4x1 | 32x0.2 | 0.6 | 48x0.16 | 30 | 1 | 140 |
| 4x1.5 | 30x0.25 | 0.7 | 56x0.16 | 30 | 1.3 | 202 |
| 4x2.5 | 50x0.25 | 0.8 | 64x0.16 | 35 | 1.3 | 276 |
| 4x4 | 56x0.3 | 0.8 | 72x0.16 | 50 | 1.3 | 370 |
| 4x6 | 84x0.3 | 0.8 | 80x0.16 | 50 | 1.3 | 477 |
| 5x0.50 | 16x0.2 | 0.6 | 56x0.12 | 25 | 1 | 117 |
| 5x0.75 | 24x0.2 | 0.6 | 56x0.12 | 30 | 1 | 137 |
| 5x1 | 32x0.2 | 0.6 | 48x0.16 | 30 | 1 | 160 |
| 5x1.5 | 30x0.25 | 0.7 | 56x0.16 | 35 | 1.3 | 231 |
| 5x2.5 | 50x0.25 | 0.8 | 72x0.16 | 50 | 1.3 | 321 |
| 5x4 | 56x0.3 | 0.8 | 80x0.16 | 50 | 1.3 | 433 |
| 5x6 | 84x0.3 | 0.8 | 88x0.16 | 50 | 1.3 | 561 |

کابل قابل انعطاف شیلد دار

استاندارد: VDE 0250 IEC 60227-7, ISIRI (607)07: 300/500 v, و لزان اسپی.

ساخته مان: هایلای از جنس پیوند شد کابل های PVC، پلی اتیلین از جنس PVC، PVC، غلاف از جنس PVC.

مواارد سرفی: از این کابل ها در مصارف ابزار دقیق و در راههای که میدان های الکتری مغایم باشد وجود دارند استفاده می شود.



کابل های افشارشان با عایق و روکش هالوژن فری و مقاوم در برابر آتش

استاندارد: ISIRI 3569 & BS 5469 & IEC 60502 & IEC 60331: 0.6/1KV.

محاذنه: هایلای از جنس پیوند کلارس.

عایق هالوژن فری: پلی اتیلین در برابر شعله.

مواارد سرفی: این کابل ها در فضاهای پسته مانند قطراهای شهری، میدان های اسپی، هواپیما، شناور، میدان نداشتگاه های سیمی و هالوژن، پلی اولین (hffr) insualtion&Poly olefin (hffr) jacket.

Flexile HFFR (halogen free fire resistant) Cables 0.6/1 KV

Standard: ISIRI 3569 & BS 5469 & IEC 60502 & IEC 60331

Rated Voltage: 0.6 / 1 KV

Construction: Copper conductor (class 5)

Poly olefin (hffr) insulation&Poly olefin (hffr) jacket.

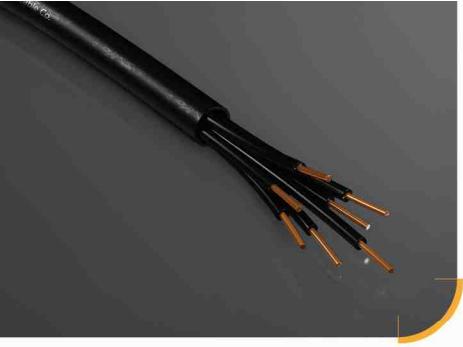
Application: This could be in an underground or over ground railway, airport, hospital, ship, offshore rig or in any other public building and space

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Sheath Thickness | Overall Diameter | Weight | Max. conductor resistance at 25 C | Current Capacity | |
|---------------------------------|----------------------|----------------------|------------------|------------------|--------|-----------------------------------|------------------|----|
| | | | | | | | (A) | |
| N ^o /mm ² | mm | mm | mm | mm | kg/km | Ω/km | | |
| 2 x 1.5 | 30 x 0.25 | 0.8 | 1.8 | 9.85 | 107 | 13.3 | 24 | 38 |
| 3 x 1.5 | 30 x 0.25 | 0.8 | 1.8 | 10.3 | 132 | 13.3 | 24 | 38 |
| 4 x 1.5 | 30 x 0.25 | 0.8 | 1.8 | 11.7 | 186 | 13.3 | 24 | 38 |
| 2 x 2.5 | 50 x 0.25 | 0.8 | 1.8 | 10.7 | 133 | 7.98 | 32 | 50 |
| 3 x 2.5 | 50 x 0.25 | 0.8 | 1.8 | 11.3 | 195 | 7.98 | - | 27 |
| 4 x 2.5 | 50 x 0.25 | 0.8 | 1.8 | 12.5 | 210 | 7.98 | - | 27 |
| 5 x 2.5 | 50 x 0.25 | 0.8 | 1.8 | 13.4 | 284 | 7.98 | - | 27 |
| 10 x 2.5 | 50 x 0.25 | 0.8 | 1.8 | 18.1 | 440 | 7.98 | - | 27 |
| 3 x 4 | 56 x 0.30 | 1 | 1.8 | 13.6 | 289 | 4.95 | - | 34 |
| 3 x 6 | 84 x 0.30 | 1 | 1.8 | 14.8 | 370 | 3.30 | - | 44 |
| 5 x 4 | 56 x 0.30 | 1 | 1.8 | 16 | 420 | 4.95 | - | 34 |
| 5 x 6 | 84 x 0.30 | 1 | 1.8 | 17.5 | 544 | 3.30 | - | 44 |
| 5 x 10 | 80 x 0.40 | 1 | 1.8 | 19.9 | 775 | 1.91 | - | 61 |
| 5 x 16 | 115 x 0.40 | 1 | 1.8 | 22.5 | 1070 | 1.21 | - | 82 |

تمامی سایزه های جدول فوق با نیاز میکنند تولید می شوند.



مشهد کابل
Mashad
30



Inflexible Control

Inflexible Control Cable

Standard:
ISIRI 3569, IEC 60502, VDE
0271

Rated Voltage : 0.6/1kV

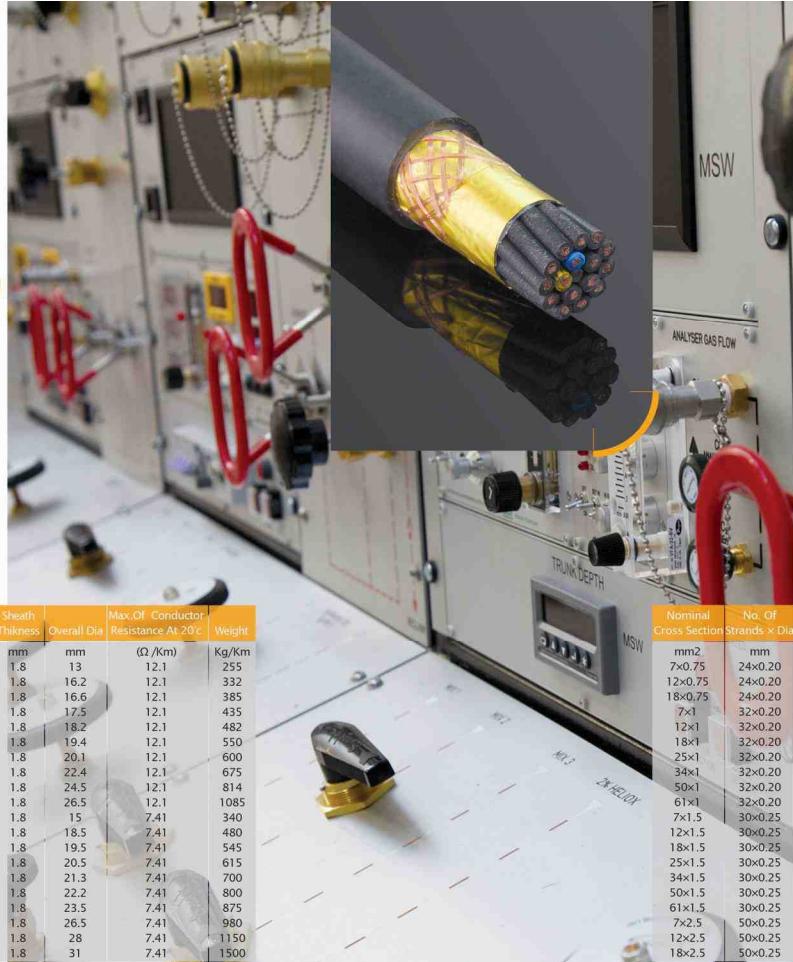
Construction:
Conductor: Annealed Copper

Conductors
Sheath: PVC

Sheath: PVC

Application: For Fixed Installation
In Water Indoors, Outdoors, Under
Ground Where Mechanical
Damage Is Not Expected

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Sheath Thickness | Overall Dia | Max.Of Conductor Resistance At 20°C | Weight |
|--------------------------------|----------------------|----------------------|------------------|-------------|-------------------------------------|--------|
| N ^o mm ² | mm | mm | mm | mm | (Ω /Km) | Kg/Km |
| 7x1.5 | 1x1.38 | 0.8 | 1.8 | 13 | 12.1 | 255 |
| 10x1.5 | 1x1.38 | 0.8 | 1.8 | 16.2 | 12.1 | 332 |
| 14x1.5 | 1x1.38 | 0.8 | 1.8 | 16.6 | 12.1 | 385 |
| 16x1.5 | 1x1.38 | 0.8 | 1.8 | 17.5 | 12.1 | 435 |
| 19x1.5 | 1x1.38 | 0.8 | 1.8 | 19.4 | 12.1 | 550 |
| 21x1.5 | 1x1.38 | 0.8 | 1.8 | 20.1 | 12.1 | 600 |
| 24x1.5 | 1x1.38 | 0.8 | 1.8 | 22.4 | 12.1 | 675 |
| 30x1.5 | 1x1.38 | 0.8 | 1.8 | 24.5 | 12.1 | 814 |
| 40x1.5 | 1x1.38 | 0.8 | 1.8 | 26.5 | 12.1 | 1085 |
| 7x2.5 | 1x1.78 | 0.8 | 1.8 | 15 | 7.41 | 340 |
| 10x2.5 | 1x1.78 | 0.8 | 1.8 | 18.5 | 7.41 | 480 |
| 12x2.5 | 1x1.78 | 0.8 | 1.8 | 19.5 | 7.41 | 545 |
| 14x2.5 | 1x1.78 | 0.8 | 1.8 | 20.5 | 7.41 | 615 |
| 16x2.5 | 1x1.78 | 0.8 | 1.8 | 21.3 | 7.41 | 700 |
| 19x2.5 | 1x1.78 | 0.8 | 1.8 | 22.2 | 7.41 | 800 |
| 21x2.5 | 1x1.78 | 0.8 | 1.8 | 23.5 | 7.41 | 875 |
| 24x2.5 | 1x1.78 | 0.8 | 1.8 | 26.5 | 7.41 | 980 |
| 30x2.5 | 1x1.78 | 0.8 | 1.8 | 28 | 7.41 | 1150 |
| 40x2.5 | 1x1.78 | 0.8 | 1.8 | 31 | 7.41 | 1500 |



کابل کنترل غیرقابل انعطاف

استاندارد:

ISIRI 3569, IEC 60502, VDE 0271

ولتاژ اسی:

0.6/1kV

ساخته شده: هایز جنس PVC نرم

عایق از جنس PVC برقی مشک

غلاف از جنس PVC

مواد مصرف: برای قصبات ثابت داخلی و با

برخون ساختمان، در فرآیند هنگامی که احتمال

صدمات ممکنی کم است.

Flexible Control Cable

Standard: VDE 0250, IEC 227

Rated Voltage: 300/500 v

Construction:

Conductor: Annealed Copper Conductors

Insulation: PVC

Sheath: PVC

Application: For control panel

Indoors, Outdoors, Under Ground, Where
Mechanical Damage Is Not Expected

کابل کنترل قابل انعطاف

VDE 0250, IEC 227

станدارت:

رنج و ایوانز:

هادی: از جنس میں نرم شده

ساخته شده: عایق از جنس PVC و غلاف از جنس PVC

موارد مصرف: برای نصب در تالارهای ساختمان و ساختمان

ها، داخل و یا بیرون ساختمان، زیر زمین هنگامی که احتمال

صدمات ممکنی کم است.

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Sheath Thickness | Overall Dia | Max.Of Conductor Resistance At 20°C | Weight |
|-----------------------|----------------------|----------------------|------------------|-------------|-------------------------------------|--------|
| mm ² | mm | mm | mm | mm | (Ω /Km) | Kg/Km |
| 7x0.75 | 24x0.20 | 0.6 | 1.0 | 10 | 26 | 122 |
| 12x0.75 | 24x0.20 | 0.6 | 1.1 | 13 | 26 | 193 |
| 18x0.75 | 24x0.20 | 0.6 | 1.3 | 15 | 26 | 275 |
| 7x1 | 32x0.20 | 0.6 | 1.0 | 10.5 | 19.5 | 145 |
| 12x1 | 32x0.20 | 0.6 | 1.2 | 13.5 | 19.5 | 232 |
| 18x1 | 32x0.20 | 0.6 | 1.3 | 16 | 19.5 | 340 |
| 25x1 | 32x0.20 | 0.6 | 1.5 | 19.3 | 19.5 | 470 |
| 34x1 | 32x0.20 | 0.6 | 1.7 | 22 | 19.5 | 625 |
| 50x1 | 32x0.20 | 0.6 | 1.9 | 25.5 | 19.5 | 905 |
| 61x1 | 32x0.20 | 0.6 | 2.1 | 27.5 | 19.5 | 1090 |
| 7x1.5 | 30x0.25 | 0.7 | 1.2 | 11.5 | 13.3 | 190 |
| 12x1.5 | 30x0.25 | 0.7 | 1.3 | 14.5 | 13.3 | 320 |
| 18x1.5 | 30x0.25 | 0.7 | 1.5 | 17.5 | 13.3 | 470 |
| 25x1.5 | 30x0.25 | 0.7 | 1.8 | 21 | 13.3 | 660 |
| 34x1.5 | 30x0.25 | 0.7 | 2.0 | 23.5 | 13.3 | 890 |
| 50x1.5 | 30x0.25 | 0.7 | 2.2 | 28 | 13.3 | 1280 |
| 61x1.5 | 30x0.25 | 0.7 | 2.4 | 30 | 13.3 | 1560 |
| 7x2.5 | 50x0.25 | 0.8 | 1.3 | 13.5 | 7.98 | 300 |
| 12x2.5 | 50x0.25 | 0.8 | 1.5 | 18 | 7.98 | 490 |
| 18x2.5 | 50x0.25 | 0.8 | 1.8 | 22 | 7.98 | 740 |



Instrument Armour Cable

Standard: BS 5308, EN 50288-7

Rated Voltage : 300/500 v

Insulation: PVC Insulation

PVC Sheath

Application: Used in cases where high accuracy is required

کابل ابزار دقیق آزمودار

استاندارد: BS 5308, EN 50288-7

300/500v: ولتاژ آسمانی

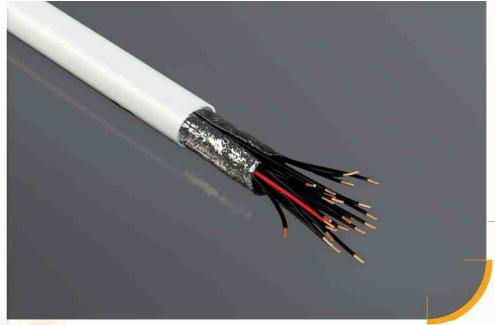
عایق: از جنس PVC

روکش: از جنس PVC

صرفه در مواردی که نیاز به دقت بالی می باشد.

| Nominal Cross Section | No.Of Strands x Dia | No.Of Core Or Pair | Insulation Thickness | Bedding Thickness | Size Of Armour Wire | Sheath Thickness | Mean Overall Dia |
|-----------------------|---------------------|--------------------|----------------------|-------------------|---------------------|------------------|------------------|
| | | | mm | mm | mm | mm | mm |
| mm ² | mm | -- | mm | mm | mm | mm | mm |
| 0.5 | 16x0.20 | 2 | 0.6 | 1.1 | 0.9 | 1.5 | 15.8 |
| 0.5 | 16x0.20 | 5 | 0.6 | 1.2 | 1.25 | 1.6 | 19.9 |
| 0.5 | 16x0.20 | 10 | 0.6 | 1.3 | 1.6 | 1.8 | 26.9 |
| 0.5 | 16x0.20 | 15 | 0.6 | 1.5 | 1.6 | 1.8 | 30.3 |
| 0.5 | 16x0.20 | 20 | 0.6 | 1.5 | 1.6 | 1.9 | 33.3 |
| 0.75 | 24x0.20 | 2 | 0.6 | 1.1 | 0.9 | 1.5 | 16.6 |
| 0.75 | 24x0.20 | 5 | 0.6 | 1.2 | 1.25 | 1.6 | 21.0 |
| 0.75 | 24x0.20 | 10 | 0.6 | 1.3 | 1.6 | 1.8 | 28.5 |
| 0.75 | 24x0.20 | 15 | 0.6 | 1.5 | 1.6 | 1.9 | 32.4 |
| 0.75 | 24x0.20 | 20 | 0.6 | 1.7 | 2.0 | 2.0 | 36.8 |
| 1.5 | 7x0.52 | 2 | 0.6 | 1.2 | 1.25 | 1.6 | 19.4 |
| 1.5 | 7x0.52 | 5 | 0.6 | 1.3 | 1.6 | 1.7 | 24.4 |
| 1.5 | 7x0.52 | 10 | 0.6 | 1.5 | 1.6 | 1.9 | 32.5 |
| 1.5 | 7x0.52 | 15 | 0.6 | 1.7 | 2.0 | 2.0 | 37.8 |
| 1.5 | 7x0.52 | 20 | 0.6 | 1.7 | 2.0 | 2.1 | 41.6 |

کابل های ابزار دقیق بدون اسکرین اختصاصی رنگ ها



Instrument Cable

Standard: BS 5308, EN 50288-7

Rated Voltage: : 300/500 v

Insulation: PVC

Sheath: PVC

Application: Used in cases where high accuracy is required

کابل ابزار دقیق

استاندارد: BS 5308, EN 50288-7

ولتاژ آسمانی: 300/500v

عایق: از جنس PVC

روکش: از جنس PVC
صرفه در مواردی که نیاز به دقت بالی می باشد.

| Nominal Cross Section | No.Of Strands x Dia | No.Of Core Or Pair | Insulation Thickness | Bedding Thickness | Size Of Armour Wire | Sheath Thickness | Mean Overall Dia |
|-----------------------|---------------------|--------------------|----------------------|-------------------|---------------------|------------------|------------------|
| | | | mm | mm | mm | mm | mm |
| mm ² | mm | -- | mm | mm | mm | mm | mm |
| 0.5 | 16x0.20 | 2 | 1 | 0.6 | 0.8 | 0.8 | 1.3 |
| 0.5 | 16x0.20 | 5 | 2 | 0.6 | 0.8 | 0.8 | 1.3 |
| 0.5 | 16x0.20 | 4 | 5 | 0.6 | 0.8 | 1.1 | 1.3 |
| 0.5 | 16x0.20 | 6 | 10 | 0.6 | 0.9 | 1.2 | 0.9 |
| 0.5 | 16x0.20 | 10 | 15 | 0.6 | 1.1 | 1.3 | 0.9 |
| 0.5 | 16x0.20 | 20 | 20 | 0.6 | 1.2 | 1.3 | 1.6 |
| 0.75 | 24x0.20 | 2 | 1 | 0.6 | 0.8 | 0.8 | 1.3 |
| 0.75 | 24x0.20 | 3 | 2 | 0.6 | 0.8 | 0.8 | 1.3 |
| 0.75 | 24x0.20 | 4 | 5 | 0.6 | 0.8 | 1.2 | 0.9 |
| 0.75 | 24x0.20 | 6 | 10 | 0.6 | 0.9 | 1.4 | 1.3 |
| 0.75 | 24x0.20 | 10 | 15 | 0.6 | 1.1 | 1.3 | 1.7 |
| 0.75 | 24x0.20 | 20 | 20 | 0.6 | 1.2 | 1.5 | 1.7 |
| 1.5 | 7x0.52 | 2 | 1 | 0.6 | 0.8 | 0.8 | 0.9 |
| 1.5 | 7x0.52 | 3 | 2 | 0.6 | 0.9 | 0.9 | 1.4 |
| 1.5 | 7x0.52 | 4 | 5 | 0.6 | 0.9 | 1.2 | 1.4 |
| 1.5 | 7x0.52 | 6 | 10 | 0.6 | 1.1 | 1.3 | 1.6 |
| 1.5 | 7x0.52 | 10 | 15 | 0.6 | 1.2 | 1.5 | 1.9 |
| 1.5 | 7x0.52 | 20 | 20 | 0.6 | 1.3 | 1.6 | 1.7 |

کابل های ابزار دقیق بدون اسکرین اختصاصی رنگ ها

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Filler Thickness | Sheath Thickness | Mean OverallDia min / max | Weight | Max. conductor resistance at 20 °C | Current Capacity at 25 °C |
|--------------------------------|----------------------|----------------------|------------------|------------------|------------------------------|--------|------------------------------------|---------------------------|
| N ^o mm ² | | mm | mm | mm | mm | mm | Kg/Km | (A) |
| 2x1.5 | 1x1.38 | 0.7 | 0.4 | 1.2 | 7.6 / 10 | 116 | 12.1 | 20 |
| 2x1.5 | 7x0.52 | 0.7 | 0.4 | 1.2 | 7.8 / 10.5 | 124 | 12.1 | 20 |
| 2x2.5 | 1x1.78 | 0.8 | 0.4 | 1.2 | 8.6 / 11.5 | 167 | 7.41 | 27 |
| 2x2.5 | 7x0.67 | 0.8 | 0.4 | 1.2 | 9 / 12 | 170 | 7.41 | 27 |
| 2x4 | 1x2.25 | 0.8 | 0.4 | 1.2 | 9.6 / 12.5 | 207 | 4.61 | 36 |
| 2x4 | 7x0.85 | 0.8 | 0.4 | 1.2 | 10 / 13 | 220 | 4.61 | 36 |
| 2x6 | 1x2.76 | 0.8 | 0.4 | 1.2 | 10.5 / 13.5 | 275 | 3.08 | 47 |
| 2x6 | 7x1.04 | 0.8 | 0.4 | 1.2 | 11 / 14 | 286 | 3.08 | 47 |
| 2x10 | 1x3.57 | 1 | 0.6 | 1.4 | 13 / 16.5 | 417 | 1.83 | 65 |
| 2x10 | 7x1.35 | 1 | 0.6 | 1.4 | 13.5 / 17.5 | 471 | 1.83 | 65 |
| 2x16 | 7x1.7 | 1 | 0.6 | 1.4 | 15.5 / 20 | 648 | 1.15 | 87 |
| 2x25 | 7x2.14 | 1.2 | 0.8 | 1.4 | 18.5 / 24 | 973 | 0.727 | 115 |
| 2x35 | 7x2.52 | 1.2 | 1 | 1.6 | 21 / 27.5 | 1311 | 0.524 | 142 |
| 3x1.5 | 1x1.38 | 0.7 | 0.4 | 1.2 | 8 / 10.5 | 136 | 12.1 | 20 |
| 3x1.5 | 7x0.52 | 0.7 | 0.4 | 1.2 | 8.2 / 11 | 144 | 12.1 | 20 |
| 3x2.5 | 1x1.78 | 0.8 | 0.4 | 1.2 | 9.2 / 12 | 189 | 7.41 | 27 |
| 3x2.5 | 7x0.67 | 0.8 | 0.4 | 1.2 | 9.4 / 12.5 | 201 | 7.41 | 27 |
| 3x4 | 1x2.25 | 0.8 | 0.4 | 1.2 | 10 / 13 | 250 | 4.61 | 36 |
| 3x4 | 7x0.85 | 0.8 | 0.4 | 1.2 | 10.5 / 13.5 | 265 | 4.61 | 36 |
| 3x6 | 1x2.76 | 0.8 | 0.4 | 1.4 | 11.5 / 14.5 | 338 | 3.08 | 47 |
| 3x6 | 7x1.04 | 0.8 | 0.4 | 1.4 | 12 / 15.5 | 360 | 3.08 | 47 |
| 3x10 | 1x3.57 | 1 | 0.6 | 1.4 | 14 / 17.5 | 538 | 1.83 | 65 |
| 3x10 | 7x1.35 | 1 | 0.6 | 1.4 | 14.5 / 19 | 572 | 1.83 | 65 |
| 3x16 | 7x1.7 | 1 | 0.8 | 1.4 | 16.5 / 21.5 | 820 | 1.15 | 87 |
| 3x25 | 7x2.14 | 1.2 | 0.8 | 1.6 | 20.5 / 26 | 1251 | 0.727 | 115 |
| 3x35 | 7x2.52 | 1.2 | 1 | 1.6 | 22 / 29.5 | 1930 | 0.524 | 143 |
| 4x1.5 | 1x1.38 | 0.7 | 0.4 | 1.2 | 8.6 / 11.5 | 187 | 12.1 | 20 |
| 4x1.5 | 7x0.52 | 0.7 | 0.4 | 1.2 | 9 / 12 | 170 | 12.1 | 20 |
| 4x2.5 | 1x1.78 | 0.8 | 0.4 | 1.2 | 10 / 13 | 235 | 7.41 | 27 |
| 4x2.5 | 7x0.67 | 0.8 | 0.4 | 1.2 | 10 / 13.5 | 240 | 7.41 | 27 |
| 4x4 | 1x2.25 | 0.8 | 0.4 | 1.4 | 11.5 / 14.5 | 324 | 4.61 | 36 |
| 4x4 | 7x0.85 | 0.8 | 0.4 | 1.4 | 12 / 15 | 331 | 4.61 | 36 |
| 4x6 | 1x2.76 | 0.8 | 0.6 | 1.4 | 12.5 / 16 | 435 | 3.08 | 47 |
| 4x6 | 7x1.04 | 0.8 | 0.6 | 1.4 | 13 / 17 | 51 | 3.08 | 47 |
| 4x10 | 1x3.57 | 1 | 0.6 | 1.4 | 14.5 / 19 | 669 | 1.83 | 65 |
| 4x10 | 7x1.35 | 1 | 0.6 | 1.4 | 16 / 20.5 | 698 | 1.83 | 65 |
| 4x16 | 7x1.7 | 1 | 0.8 | 1.4 | 18 / 23.5 | 1010 | 1.15 | 87 |
| 4x25 | 7x2.14 | 1.2 | 1 | 1.6 | 22.5 / 28.5 | 1550 | 0.727 | 115 |
| 4x35 | 7x2.52 | 1.2 | 1 | 1.6 | 24.5 / 32 | 2046 | 0.524 | 143 |
| 5x1.5 | 1x1.38 | 0.7 | 0.4 | 1.2 | 9.4 / 12 | 191 | 12.1 | 20 |
| 5x1.5 | 7x0.52 | 0.7 | 0.4 | 1.2 | 9.8 / 12.5 | 204 | 12.1 | 20 |
| 5x2.5 | 1x1.78 | 0.8 | 0.4 | 1.2 | 11 / 14 | 272 | 7.41 | 27 |
| 5x2.5 | 7x0.67 | 0.8 | 0.4 | 1.2 | 11 / 14.5 | 290 | 7.41 | 27 |
| 5x4 | 1x2.25 | 0.8 | 0.6 | 1.4 | 12.5 / 16 | 396 | 4.61 | 36 |
| 5x4 | 7x0.85 | 0.8 | 0.6 | 1.4 | 13 / 17 | 420 | 4.61 | 36 |
| 5x6 | 1x2.76 | 0.8 | 0.6 | 1.4 | 13.5 / 17.5 | 520 | 3.08 | 47 |
| 5x6 | 7x1.04 | 0.8 | 0.6 | 1.4 | 14.5 / 18.5 | 560 | 3.08 | 47 |
| 5x10 | 1x3.57 | 1 | 0.6 | 1.4 | 17 / 21 | 806 | 1.83 | 65 |
| 5x10 | 7x1.35 | 1 | 0.6 | 1.4 | 17.5 / 22 | 860 | 1.83 | 65 |
| 5x16 | 7x1.7 | 1 | 0.8 | 1.6 | 20.5 / 26 | 1255 | 1.15 | 87 |
| 5x25 | 7x2.14 | 1.2 | 1 | 1.6 | 24.5 / 31.5 | 1975 | 0.727 | 115 |
| 5x35 | 7x2.52 | 1.2 | 1.2 | 1.6 | 27 / 35 | 2521 | 0.524 | 143 |

Inflexible PVC Insulated & Sheathed Cables 300/500 v

Standard: ISIRI (607) 10, IEC 60227-10

Rated Voltage: 300/500 v

Construction:

2,3,4 or 5 Solid Or Standard Annealed Copper Conductors, PVC Insulation, PVC Sheath

PVC filler

Application: For Outdoors and Indoors, In Damp Within Plaster And Ground

Inflexible PVC Insulated Cable

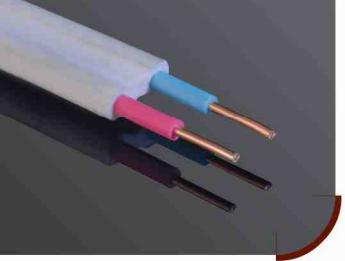
کابل های مفتول و نیمه افشار 300/500 ولت

استاندارد: ISIRI (607) 10, IEC 60227-10
 ولتاژ ایمنی: 300/500v

ساخته شده از جنس مس نرم مقنولی و یا 5 رشته هایی از جنس مس نرم مقنولی و پایه بندیده شده غیر قابل احتساب PVC، عارق، PVC غلاف، PVC فلزی

موارد مصرف: جهت نصب ثابت در داخل یا خارج ساختمان داخلی دیوار و زیر زمین استفاده از آن در مکان هایی که احتمال ضربات مکانیکی مستحبه وجود دارد و مناسب نیست باشد





Inflexible Flat Cable

Inflexible Flat Cable

Rated Voltage: 300/500 v
Construction:
Conductor: Class1 Copper
Insulation: PVC
Sheath: PVC

کابل های جریدار

و تلاز اسپی: 300/500
سامتمن: هادی از جنس مس کلاس 1
عایق: PVC
روکش: از جنس PVC با استقامات کشی کم
مواد مصرف: این کابل ها معمولاً در کشور افغانستان در ساختمان ها و روی دواره نصب می شوند.

| Size | No° Dia | Insulation Thickness | Sheath Thickness | Weight |
|--------------------------------|-----------------|----------------------|------------------|--------|
| N ^o mm ² | Mm ⁿ | mm | mm | kg/km |
| 2*1.5 | 1*1.38 | 0.7 | 87 | |
| 2*2.5 | 1*1.78 | 0.8 | 120 | |
| 3*1.5 | 1*1.38 | 0.7 | 131 | |



Inflexible Flat PVC Insulated & Sheathed Cables 300/500V

Standard: BS6004
Rated Voltage: 300/500 v
Construction: 2,3,4, Or 5 Conductor
Insulation: PVC Insulation
White PVC Sheath
Application: In Dry Or Damp Rooms For Permanent Installation On Or Under Plaste

کابل های زیرگرد

استاندارد: 300/500 v
و تلاز اسپی: 5 با 4:3:2:1
سامتمن: هادی از جنس اینل مده
عایق: از جنس PVC پرنگ طوسی
غلاف از جنس PVC پرنگ طوسی
مولدمصرف: جهت نصب تابیت دهنل یا خنک و مومناک
سیم کش: داخل ساختمان، روی دیوار یا زیر چرخ

| Nominal Cross Section | No.Of Strands x Dia | Insulation Thickness | Sheath Thickness | Overall Dia | Weight | Max. conductor resistance at 20°C | Current capacity at 25°C |
|--------------------------------|---------------------|----------------------|------------------|-------------|--------|-----------------------------------|--------------------------|
| N ^o mm ² | mm | mm | mm | mm | Kg/km | (Ω / Km) | (A) |
| 2x0.75 | 1x0.97 | 0.6 | 0.9 | 6.1x4 | 43 | 24.5 | 10 |
| 2x1 | 1x1.13 | 0.6 | 0.9 | 6.5x4.1 | 53 | 18.1 | 16 |
| 2x1.5 | 1x1.38 | 0.7 | 0.9 | 7.4x4.6 | 68 | 12.1 | 20 |
| 2x2.5 | 1x1.78 | 0.8 | 0.9 | 8.6x5.2 | 98 | 7.41 | 27 |
| 2x4 | 7x0.85 | 0.8 | 1 | 10.3x6.2 | 142 | 4.61 | 36 |
| 2x6 | 7x1.04 | 0.8 | 1.1 | 11.6x7 | 196 | 3.08 | 47 |
| 2x10 | 7x1.35 | 1 | 1.2 | 14.5x8.5 | 305 | 1.83 | 65 |
| 2x16 | 7x1.70 | 1 | 1.3 | 16.8x9.7 | 472 | 1.15 | 87 |
| 3x0.75 | 1x0.97 | 0.6 | 0.9 | 8.3x4 | 62 | 24.5 | 10 |
| 3x1 | 1x1.13 | 0.6 | 0.9 | 8.8x4.1 | 73 | 18.1 | 16 |
| 3x1.5 | 1x1.38 | 0.7 | 0.9 | 10.1x4.6 | 98 | 12.1 | 20 |
| 3x2.5 | 1x1.78 | 0.8 | 0.9 | 11.9x5.2 | 144 | 7.41 | 27 |
| 3x4 | 7x0.85 | 0.8 | 1.1 | 14.7x6.4 | 209 | 4.61 | 36 |
| 3x6 | 7x1.04 | 0.8 | 1.1 | 16.4x7 | 285 | 3.08 | 47 |
| 3x10 | 7x1.35 | 1 | 1.2 | 20.6x8.5 | 447 | 1.83 | 65 |
| 3x16 | 7x1.70 | 1 | 1.3 | 23.9x9.7 | 694 | 1.15 | 87 |
| 4x1 | 1x1.13 | 0.6 | 1 | 11.4x4.4 | 94 | 18.1 | 16 |
| 4x1.5 | 1x1.38 | 0.7 | 1 | 12.4x4.6 | 119 | 12.1 | 20 |
| 4x2.5 | 1x1.78 | 0.8 | 1.1 | 15x5.4 | 180 | 7.41 | 27 |
| 4x4 | 7x0.85 | 0.8 | 1.2 | 19x6.6 | 283 | 4.61 | 36 |
| 5x1 | 1x1.13 | 0.6 | 1 | 13.7x4.4 | 116 | 18.1 | 16 |
| 5x1.5 | 1x1.38 | 0.7 | 1 | 14.9x4.6 | 147 | 12.1 | 20 |
| 5x2.5 | 1x1.78 | 0.8 | 1.1 | 18.1x5.4 | 223 | 7.41 | 27 |
| 5x4 | 7x0.85 | 0.8 | 1.2 | 23.2x6.6 | 351 | 4.61 | 36 |

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کابل های 3/5 رشته آلمینیومی با عارق پل آتلن کراسلینک و نوار امور قولادی

استاندارد:
IEC 60502, VDE 0271 ISIRI 3569, BS 5467
0.6/1KV
و لایز اسپرس: 500/450V

علق غافق PVC
هادی از جنس آلمینیوم کلاس 2 و قطاعی شکل
بینکده برکنده از جنس PVC
امور از جنس نوار قولادی



مشهد
کابل
کابل
مشهد



NA2XBY

Standard:
IEC 60502 , VDE 0271 ISIRI 3569 , BS 5467
Rated Voltage : 0.6/1KV

Construction:
Conductor: Aluminium Class 2
Insulation: Xlpe
Armour: Tape Steel
Sheath: PVC

عایق از جنس PVC بیگن سفید

Inflexible
Cable

کابل کولری

استاندارد: هادی
ISIRI 3084
سیم زیری: ISIRI 607-01, 607-05
و لایز اسپرس: 300/450V

ساختمان ماده: از جنس سیم تک رشته نیز شده

علق از جنس PVC در بینکدهای مختلف

موارد مصرف: برای نصب PVC بیگن سفید
که احتمال صدمات مکانیکی ناجیز است.

Inflexible PVC Insulated & Sheathed

Standard: ISIRI 3084
Inner Wire: ISIRI 607-01, 607-05
Rated Voltage: 300/450 V
Construction:
Conductor: Annealed Copper wire
Insulation: PVC Insulation
White PVC Sheath
Application: For Fixed Installing In Dry Indoors, Where (Mechanical damage) Is Not Expected

| Nominal Cross Section | Conductor Specification | Number Of Strand | Diameter Of Strand | Insulation Thickness | Armor type | Sheath Thickness | Overall Diameter | Max . conductor resistance at 20 C | Weight |
|-----------------------|-------------------------|------------------|--------------------|----------------------|------------|------------------|------------------|------------------------------------|--------|
| mm² | - | mm | mm | mm | mm | mm | mm | Ω/Km | Kg/Km |
| 3x50/25 | 7/7 | 3/2.16 | 1/0.9 | 0.2 | 1.9 | 31 | 0.641/1.2 | 1200 | |
| 3x70/35 | 19/7 | 2.14/2.57 | 1.1/0.9 | 0.2 | 2 | 34 | 0.443/0.868 | 1550 | |
| 3x95/50 | 19/7 | 2.52/3 | 1.1/1 | 0.5 | 2.2 | 40 | 0.320/0.641 | 1970 | |
| 3x120/70 | 37/19 | 2.03/2.14 | 1.2/1 | 0.5 | 2.3 | 43 | 0.253/0.443 | 2410 | |
| 3x150/70 | 37/19 | 2.25/2.14 | 1.4/1.1 | 0.5 | 2.4 | 47 | 0.260/0.443 | 3290 | |
| 3x185/95 | 37/19 | 2.54/2.52 | 1.6/1.1 | 0.5 | 2.5 | 52 | 0.164/0.320 | 3980 | |
| 3x240/120 | 61/37 | 2.25/2.03 | 1.7/1.2 | 0.5 | 2.7 | 58 | 0.125/0.253 | 4910 | |
| 3x300/150 | 61/37 | 2.52/2.25 | 1.8/1.4 | 0.5 | 2.9 | 63 | 0.100/0.206 | 5920 | |

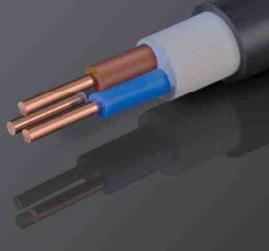
| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Sheath Thickness | Mean Overa Dia | Weight | Max. conductor resistancet 20 C | Current Capacity at 25 c |
|--------------------------------|----------------------|----------------------|------------------|----------------|--------|---------------------------------|--------------------------|
| | mm | mm | mm | mm | Kg/Km | (Ω / Km) | (A) |
| N ¹ mm ² | | | | | | | |
| 4x1 | 1x1.13 | 0.6 | 0.9 | 6 | 7.8 | 91 | 18.1 |
| 4x1.5 | 1x1.38 | 0.7 | 1.1 | 7 | 9.5 | 132 | 12.1 |
| 5x1 | 1x1.13 | 0.6 | 1 | 8 | 8.8 | 111 | 18.1 |
| 5x1.5 | 1x1.38 | 0.7 | 1.1 | 8.5 | 10 | 155 | 12.1 |

| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Filler Thickness | Sheath Thickness | Overall Dia | Weight | Max. conductor resistance at 20°C | | Current Capacity at 25°C | |
|--------------------------------|----------------------|----------------------|------------------|------------------|-------------|--------|-----------------------------------|--------|--------------------------|-----|
| | | | | | | | at 20°C | in air | on the ground | (A) |
| N ^o mm ² | mm | mm | mm | mm | mm | Kg/km | (Ω/km) | - | - | |
| 2x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 11.6 | 187 | 12.1 | - | - | 20 |
| 2x1.5 | 7x0.52 | 0.8 | 1 | 1.8 | 11.9 | 197 | 12.1 | - | - | 20 |
| 2x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 13.2 | 252 | 7.41 | - | - | 27 |
| 2x2.5 | 7x0.67 | 0.8 | 1 | 1.8 | 13.6 | 266 | 7.41 | - | - | 27 |
| 2x4 | 1x2.25 | 1 | 1 | 1.8 | 14.1 | 307 | 4.61 | - | - | 36 |
| 2x4 | 7x0.85 | 1 | 1 | 1.8 | 14.7 | 326 | 4.61 | - | - | 36 |
| 2x6 | 1x2.76 | 1 | 1 | 1.8 | 15.1 | 375 | 3.08 | - | - | 47 |
| 2x6 | 7x1.04 | 1 | 1 | 1.8 | 15.8 | 400 | 3.08 | - | - | 47 |
| 2x10 | 1x3.57 | 1 | 1 | 1.8 | 16.7 | 502 | 1.83 | - | - | 65 |
| 2x10 | 7x1.35 | 1 | 1 | 1.8 | 17.7 | 537 | 1.83 | - | - | 65 |
| 2x10 | 7x1.7 | 1 | 1 | 1.8 | 19.8 | 721 | 1.15 | - | - | 87 |
| 2x25 | 7x2.14 | 1.2 | 1 | 1.8 | 23.1 | 1039 | 0.77 | - | - | 115 |
| 2x35 | 7x2.52 | 1.2 | 1 | 1.8 | 25.5 | 1328 | 0.524 | - | - | 143 |
| 3x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 12 | 210 | 12.1 | - | - | 20 |
| 3x1.5 | 7x0.52 | 0.8 | 1 | 1.8 | 12.4 | 220 | 12.1 | - | - | 20 |
| 3x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 13.7 | 287 | 7.41 | - | - | 27 |
| 3x2.5 | 7x0.67 | 0.8 | 1 | 1.8 | 14.2 | 301 | 7.41 | - | - | 27 |
| 3x4 | 1x2.25 | 1 | 1 | 1.8 | 14.7 | 356 | 4.61 | - | - | 36 |
| 3x4 | 7x0.85 | 1 | 1 | 1.8 | 15.4 | 376 | 4.61 | - | - | 36 |
| 3x6 | 1x2.76 | 1 | 1 | 1.8 | 15.8 | 443 | 3.08 | - | - | 47 |
| 3x6 | 7x1.04 | 1 | 1 | 1.8 | 16.6 | 467 | 3.08 | - | - | 47 |
| 3x10 | 1x3.57 | 1 | 1 | 1.8 | 17.6 | 606 | 1.83 | - | - | 65 |
| 3x10 | 7x1.35 | 1 | 1 | 1.8 | 18.6 | 642 | 1.83 | - | - | 65 |
| 3x16 | 7x1.7 | 1 | 1 | 1.8 | 20.9 | 879 | 1.15 | - | - | 87 |
| 3x25 | 7x2.14 | 1.2 | 1 | 1.8 | 24.5 | 1279 | 0.772 | - | - | 115 |
| 3x35 | 7x2.52 | 1.2 | 1 | 1.8 | 27 | 1655 | 0.524 | - | - | 143 |
| 4x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 12.8 | 241 | 12.1 | - | - | 20 |
| 4x1.5 | 7x0.52 | 0.8 | 1 | 1.8 | 13.2 | 253 | 12.1 | - | - | 20 |
| 4x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 14.7 | 333 | 7.41 | - | - | 27 |
| 4x2.5 | 7x0.67 | 0.8 | 1 | 1.8 | 15.2 | 351 | 7.41 | - | - | 27 |
| 4x4 | 1x2.25 | 1 | 1 | 1.8 | 15.8 | 421 | 4.61 | - | - | 36 |
| 4x4 | 7x0.85 | 1 | 1 | 1.8 | 16.5 | 443 | 4.61 | - | - | 36 |
| 4x6 | 1x2.76 | 1 | 1 | 1.8 | 17.1 | 529 | 3.08 | - | - | 47 |
| 4x6 | 7x1.04 | 1 | 1 | 1.8 | 18 | 557 | 3.08 | - | - | 47 |
| 4x10 | 1x3.57 | 1 | 1 | 1.8 | 19 | 735 | 1.83 | - | - | 65 |
| 4x10 | 7x1.35 | 1 | 1 | 1.8 | 20 | 776 | 1.83 | - | - | 65 |
| 4x16 | 7x1.7 | 1 | 1 | 1.8 | 22.7 | 1074 | 1.15 | - | - | 87 |
| 4x25 | 7x2.14 | 1.2 | 1 | 1.8 | 26.8 | 1574 | 0.727 | - | - | 115 |
| 4x35 | 7x2.52 | 1.2 | 1 | 1.9 | 29.8 | 2063 | 0.524 | - | - | 143 |
| 5x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 13.6 | 280 | 12.1 | - | - | 20 |
| 5x1.5 | 7x0.52 | 0.8 | 1 | 1.8 | 14.1 | 293 | 12.1 | - | - | 20 |
| 5x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 15.8 | 393 | 7.41 | - | - | 27 |
| 5x2.5 | 7x0.67 | 0.8 | 1 | 1.8 | 16.4 | 412 | 7.41 | - | - | 27 |
| 5x4 | 1x2.25 | 1 | 1 | 1.8 | 17.1 | 499 | 4.61 | - | - | 36 |
| 5x4 | 7x0.85 | 1 | 1 | 1.8 | 17.8 | 526 | 4.61 | - | - | 36 |
| 5x6 | 1x2.76 | 1 | 1 | 1.8 | 18.4 | 633 | 3.08 | - | - | 47 |
| 5x6 | 7x1.04 | 1 | 1 | 1.8 | 19.4 | 666 | 3.08 | - | - | 47 |
| 5x10 | 1x3.57 | 1 | 1 | 1.8 | 20.6 | 886 | 1.83 | - | - | 65 |
| 5x10 | 7x1.35 | 1 | 1 | 1.8 | 22 | 936 | 1.83 | - | - | 65 |
| 5x16 | 7x1.7 | 1 | 1 | 1.8 | 24.7 | 1305 | 1.15 | - | - | 87 |
| 5x25 | 7x2.14 | 1.2 | 1 | 1.9 | 29.5 | 1936 | 0.727 | - | - | 115 |
| 5x35 | 7x2.52 | 1.2 | 1.2 | 2 | 33.3 | 2580 | 0.524 | - | - | 143 |

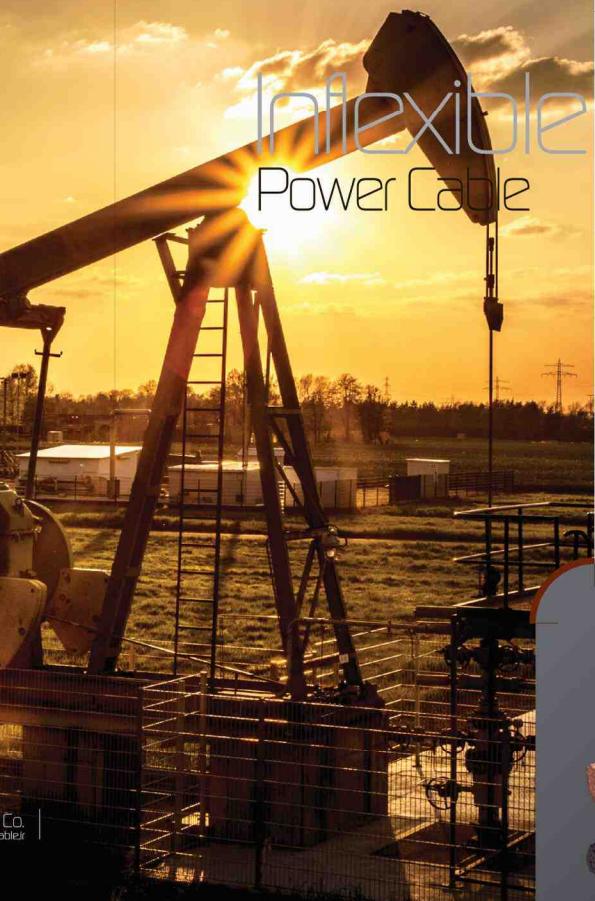
استاندارد:
IEC 60502, VDE 0271/ISIRI 3569, BS 5467
 ولتاژ اسکرین: 0.6/1kv
 ساخته شده از مس نرم شده کلاس 1 با 4:3:2 PVC
 PVC Insulation, PVC Sheath

استاندارد:
IEC 60502, VDE 0271/ISIRI 3569, BS 5467
 ولتاژ اسکرین: 0.6/1kv
 ساخته شده از مس نرم شده کلاس 1 با 4:3:2 PVC
 PVC Insulation, PVC Sheath

Inflexible
PVC
Insulated



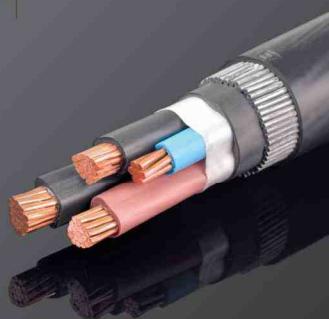
| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Beding Thickness | Sheath Thickness | No. Of Armour Wires | Armour wire diameter | Overall Dia | Weight | Max. conductor resistance at 20°C | Current Capacity at 25°C | |
|-----------------------|----------------------|----------------------|------------------|------------------|---------------------|----------------------|-------------|--------|-----------------------------------|--------------------------|-----|
| | | mm | mm | mm | N | mm | mm | Kg/Km | (Ω/km) | (A) | (A) |
| Nxmn2 | | | | | | | | | | | |
| 1x16 | 7x1.70 | 1 | 1 | 1.8 | 36 | 0.8 | 14.3 | 451 | 1.15 | 105 | 145 |
| 1x25 | 7x2.14 | 1.2 | 1 | 1.8 | 28 | 1.25 | 16.9 | 703 | 0.727 | 140 | 190 |
| 1x35 | 7x2.25 | 1.2 | 1 | 1.8 | 31 | 1.25 | 18.1 | 839 | 0.524 | 175 | 235 |
| 1x50 | 19x1.78 | 1.4 | 1 | 1.8 | 35 | 1.25 | 19.8 | 1032 | 0.387 | 215 | 280 |
| 1x70 | 19x2.14 | 1.4 | 1 | 1.8 | 31 | 1.6 | 22.3 | 1414 | 0.268 | 270 | 350 |
| 1x95 | 19x2.52 | 1.6 | 1 | 1.8 | 35 | 1.6 | 24.6 | 1778 | 0.193 | 335 | 420 |
| 1x120 | 37x2.03 | 1.6 | 1 | 1.8 | 39 | 1.6 | 26.2 | 2085 | 0.153 | 365 | - |
| 1x150 | 37x2.25 | 1.8 | 1 | 1.9 | 42 | 1.6 | 28.3 | 2457 | 0.124 | 415 | - |
| 1x185 | 37x2.52 | 2 | 1 | 1.9 | 47 | 1.6 | 30.6 | 2929 | 0.0991 | 475 | - |
| 1x240 | 61x2.25 | 2.2 | 1 | 2.1 | 42 | 2 | 34.9 | 3880 | 0.0754 | 560 | - |
| 1x300 | 61x2.52 | 2.4 | 1.2 | 2.2 | 47 | 2 | 38.3 | 4696 | 0.0601 | 645 | - |
| 2x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 32 | 0.8 | 13.2 | 312 | 12.1 | - | 20 |
| 2x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 38 | 0.8 | 14.8 | 399 | 7.41 | - | 27 |
| 2x4 | 1x2.25 | 1 | 1 | 1.8 | 27 | 1.25 | 16.6 | 565 | 4.61 | - | 36 |
| 2x6 | 1x2.76 | 1 | 1 | 1.8 | 29 | 1.25 | 17.6 | 653 | 3.08 | - | 47 |
| 2x10 | 1x3.57 | 1 | 1 | 1.8 | 34 | 1.25 | 19.2 | 812 | 1.83 | - | 65 |
| 2x16 | 7x1.7 | 1 | 1 | 1.8 | 32 | 1.6 | 23 | 1210 | 1.15 | - | 87 |
| 2x25 | 7x2.14 | 1.2 | 1 | 1.8 | 39 | 1.6 | 26.4 | 1610 | 0.727 | - | 115 |
| 3x25 | 7x2.52 | 1.2 | 1 | 1.9 | 44 | 1.6 | 28.9 | 1968 | 0.524 | - | 143 |
| 3x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 34 | 0.8 | 13.6 | 342 | 12.1 | - | 20 |
| 3x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 26 | 1.25 | 16.2 | 541 | 7.41 | - | 27 |
| 3x4 | 1x2.25 | 1 | 1 | 1.8 | 29 | 1.25 | 17.3 | 631 | 4.61 | - | 36 |
| 3x6 | 1x2.76 | 1 | 1 | 1.8 | 31 | 1.25 | 18.4 | 741 | 3.08 | - | 47 |
| 3x10 | 1x3.57 | 1 | 1 | 1.8 | 36 | 1.25 | 20.1 | 940 | 1.83 | - | 65 |
| 3x16 | 7x1.7 | 1 | 1 | 1.8 | 34 | 1.6 | 24.1 | 1407 | 1.15 | - | 87 |
| 3x25 | 7x2.14 | 1.2 | 1 | 1.8 | 42 | 1.6 | 27.7 | 1902 | 0.727 | - | 115 |
| 3x35 | 7x2.52 | 1.2 | 1 | 1.9 | 47 | 1.6 | 30.5 | 2355 | 0.524 | - | 143 |
| 4x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 37 | 0.8 | 14.4 | 385 | 12.1 | - | 20 |
| 4x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 28 | 1.25 | 17.2 | 611 | 7.41 | - | 27 |
| 4x4 | 1x2.25 | 1 | 1 | 1.8 | 31 | 1.25 | 18.4 | 722 | 4.61 | - | 36 |
| 4x6 | 1x2.76 | 1 | 1 | 1.8 | 34 | 1.25 | 19.6 | 857 | 3.08 | - | 47 |
| 4x10 | 1x3.57 | 1 | 1 | 1.8 | 31 | 1.6 | 22.2 | 1218 | 1.83 | - | 65 |
| 4x16 | 7x1.7 | 1 | 1 | 1.8 | 38 | 1.6 | 25.9 | 1658 | 1.15 | - | 87 |
| 4x25 | 7x2.14 | 1.2 | 1 | 1.9 | 46 | 1.6 | 30.2 | 2280 | 0.727 | - | 115 |
| 4x35 | 7x2.52 | 1.2 | 1 | 2.1 | 41 | 2 | 34.2 | 3076 | 0.524 | - | 143 |
| 5x1.5 | 1x1.38 | 0.8 | 1 | 1.8 | 40 | 0.8 | 15.2 | 435 | 12.1 | - | 20 |
| 5x2.5 | 1x1.78 | 0.8 | 1 | 1.8 | 31 | 1.25 | 18.3 | 695 | 7.41 | - | 27 |
| 5x4 | 1x2.25 | 1 | 1 | 1.8 | 34 | 1.25 | 19.6 | 828 | 4.61 | - | 36 |
| 5x6 | 1x2.76 | 1 | 1 | 1.8 | 38 | 1.25 | 21 | 991 | 3.08 | - | 47 |
| 5x10 | 1x3.57 | 1 | 1 | 1.8 | 34 | 1.6 | 23.8 | 1417 | 1.83 | - | 65 |
| 5x16 | 7x1.7 | 1 | 1 | 1.9 | 42 | 1.6 | 28.2 | 1961 | 1.15 | - | 87 |
| 5x25 | 7x2.14 | 1.2 | 1 | 2 | 41 | 2 | 33.7 | 2933 | 0.727 | - | 115 |
| 5x35 | 7x2.52 | 1.2 | 1.2 | 2.2 | 47 | 2 | 37.7 | 3713 | 0.524 | - | 143 |



Inflexible
Power Cable

کابل‌های مغفول باهادی مسی و آمودار PVC با عایق PVC و روکش PVC

استاندارد:
ISIRI 3569, BS5467, VDE 0271, IEC 60502
0.6/1kV
لایزنس: از جنس مس کاپش 2 و 1
هادی: از جنس PVC
علاق: از جنس PVC
آزمون: از جنس ششهای قوبلایی و آمیسوسی
روکش: از جنس PVC



| Nominal Cross Section | No. Of Strands x Dia | Insulation Thickness | Beding Thickness | Sheath Thickness | Armour Details | | Copper Shield Specifications | | Overall Dia | Max. conductor resistance at 20°C | Weight |
|-----------------------|----------------------|----------------------|------------------|------------------|-------------------|----------|------------------------------|----------------------|-------------|-----------------------------------|--------|
| | | | | | Armor wire number | Diameter | Copper wire number | Copper wire diameter | | | |
| mm ² | mm | mm | mm | mm | --- | mm | --- | mm | mm | Ω/km | Kg/km |
| 1x16 | 7x1.7 | 0.7 | 1.2 | 1.8 | 34 | 1.25 | 127 | 0.40 | 18.20 | 1.91 | 789 |
| 1x25 | 7x2.14 | 0.9 | 1.2 | 1.8 | 38 | 1.25 | 127 | 0.40 | 20 | 1.20 | 900 |
| 1x35 | 7x2.52 | 0.9 | 1.2 | 1.8 | 41 | 1.25 | 127 | 0.40 | 21.10 | 0.868 | 983 |
| 1x50 | 7x3 | 1 | 1.2 | 1.8 | 36 | 1.6 | 127 | 0.40 | 23.40 | 0.641 | 1245 |
| 1x70 | 19x2.14 | 1.1 | 1.2 | 1.8 | 39 | 1.6 | 127 | 0.40 | 25.30 | 0.443 | 1410 |
| 1x95 | 19x2.52 | 1.1 | 1.2 | 1.8 | 43 | 1.6 | 127 | 0.40 | 27.20 | 0.320 | 1585 |
| 1x120 | 37x2.01 | 1.2 | 1.2 | 1.9 | 46 | 1.6 | 127 | 0.40 | 29.10 | 0.253 | 1759 |
| 1x150 | 37x2.19 | 1.4 | 1.2 | 1.9 | 50 | 1.6 | 127 | 0.50 | 31 | 0.206 | 2014 |
| 1x185 | 37x2.48 | 1.6 | 1.2 | 2.1 | 45 | 2 | 127 | 0.50 | 34.60 | 0.164 | 2545 |
| 1x240 | 61x2.19 | 1.7 | 1.2 | 2.2 | 49 | 2 | 127 | 0.50 | 37.40 | 0.125 | 2877 |
| 1x300 | 61x2.48 | 1.8 | 1.2 | 2.2 | 53 | 2 | 127 | 0.50 | 40 | 0.100 | 3240 |
| 2x1.5 | 1x1.38 | 0.7 | 1.2 | 1.8 | 31 | 1.25 | 12 | 0.40 | 16.40 | 18.1 | 473 |
| 2x2.5 | 1x1.78 | 0.7 | 1.2 | 1.8 | 33 | 1.25 | 20 | 0.40 | 18.10 | 12.1 | 657 |
| 2x4 | 1x2.25 | 0.7 | 1.2 | 1.8 | 36 | 1.25 | 32 | 0.40 | 19 | 7.41 | 733 |
| 2x6 | 1x2.76 | 0.7 | 1.2 | 1.8 | 38 | 1.25 | 48 | 0.40 | 20.10 | 4.61 | 823 |
| 2x10 | 1x3.57 | 0.7 | 1.2 | 1.8 | 34 | 1.6 | 80 | 0.40 | 22.40 | 3.08 | 1112 |
| 2x16 | 7x1.7 | 0.7 | 1.2 | 1.8 | 40 | 1.6 | 127 | 0.40 | 25.50 | 1.91 | 1418 |
| 2x25 | 7x2.14 | 0.9 | 1.2 | 1.9 | 46 | 1.6 | 127 | 0.40 | 29.10 | 1.20 | 1750 |
| 2x35 | 7x2.52 | 0.9 | 1.2 | 2 | 51 | 1.6 | 127 | 0.40 | 31.50 | 0.868 | 2000 |
| 3x1.5 | 1x1.38 | 0.7 | 1.2 | 1.8 | 32 | 1.25 | 12 | 0.40 | 17.70 | 18.1 | 621 |
| 3x2.5 | 1x1.78 | 0.7 | 1.2 | 1.8 | 34 | 1.25 | 20 | 0.40 | 18.60 | 12.1 | 686 |
| 3x4 | 1x2.25 | 0.7 | 1.2 | 1.8 | 37 | 1.25 | 32 | 0.40 | 19.60 | 7.41 | 769 |
| 3x6 | 1x2.76 | 0.7 | 1.2 | 1.8 | 40 | 1.25 | 48 | 0.40 | 20.70 | 4.61 | 866 |
| 3x10 | 1x3.57 | 0.7 | 1.2 | 1.8 | 35 | 1.6 | 80 | 0.40 | 23.20 | 3.08 | 1175 |
| 3x16 | 7x1.7 | 0.7 | 1.2 | 1.8 | 42 | 1.6 | 127 | 0.40 | 26.50 | 1.91 | 1504 |
| 3x25 | 7x2.14 | 0.9 | 1.2 | 1.9 | 49 | 1.6 | 127 | 0.40 | 30.40 | 1.20 | 1870 |
| 3x35 | 7x2.52 | 0.9 | 1.2 | 2 | 44 | 2 | 127 | 0.40 | 33.80 | 0.868 | 2390 |
| 4x1.5 | 1x1.38 | 0.7 | 1.2 | 1.8 | 34 | 1.25 | 12 | 0.40 | 18.50 | 18.1 | 663 |
| 4x2.5 | 1x1.78 | 0.7 | 1.2 | 1.8 | 37 | 1.25 | 20 | 0.40 | 19.40 | 12.1 | 736 |
| 4x4 | 1x2.25 | 0.7 | 1.2 | 1.8 | 39 | 1.25 | 32 | 0.40 | 20.60 | 7.41 | 829 |
| 4x6 | 1x2.76 | 0.7 | 1.2 | 1.8 | 34 | 1.6 | 48 | 0.40 | 22.50 | 4.61 | 1072 |
| 4x10 | 1x3.57 | 0.7 | 1.2 | 1.8 | 38 | 1.6 | 80 | 0.40 | 25 | 3.08 | 1279 |
| 4x16 | 7x1.7 | 0.7 | 1.2 | 1.9 | 45 | 1.6 | 127 | 0.40 | 28.30 | 1.91 | 1660 |
| 4x25 | 7x2.14 | 0.9 | 1.2 | 2 | 43 | 2 | 127 | 0.40 | 33.50 | 1.20 | 2320 |
| 4x35 | 7x2.52 | 0.9 | 1.2 | 2.1 | 47 | 2 | 127 | 0.40 | 36.40 | 0.868 | 2670 |
| 5x1.5 | 1x1.38 | 0.7 | 1.2 | 1.8 | 36 | 1.25 | 12 | 0.40 | 19.25 | 18.1 | 708 |
| 5x2.5 | 1x1.78 | 0.7 | 1.2 | 1.8 | 39 | 1.25 | 20 | 0.40 | 20.30 | 12.1 | 790 |
| 5x4 | 1x2.25 | 0.7 | 1.2 | 1.8 | 33 | 1.6 | 32 | 0.40 | 22.30 | 7.41 | 1027 |
| 5x6 | 1x2.76 | 0.7 | 1.2 | 1.8 | 36 | 1.6 | 48 | 0.40 | 24 | 4.61 | 1160 |
| 5x10 | 1x3.57 | 0.7 | 1.2 | 1.8 | 40 | 1.6 | 80 | 0.40 | 25.82 | 3.08 | 1392 |
| 5x16 | 7x1.7 | 0.7 | 1.2 | 2 | 49 | 1.6 | 127 | 0.40 | 30.40 | 1.91 | 1832 |
| 5x25 | 7x2.14 | 0.9 | 1.2 | 2.1 | 47 | 2 | 127 | 0.40 | 36 | 1.20 | 2575 |
| 5x35 | 7x2.52 | 0.9 | 1.2 | 2.2 | 52 | 2 | 127 | 0.40 | 39.30 | 0.868 | 2980 |

Inflexible Aluminum Conductor



Inflexible aluminum conductor xlpe
Insulated & pvc sheathed power
armored & shielded cable (0.6/1KV)

Standard: ISIRI 3569, BS 5467, IEC 60502, VDE 0271

Rated Voltage: 0.6/1kv

Conductor: class2 Aluminum

Insulation: XLPE

Bedding: PVC filler

Sheath: PVC

Armour: wire steel & AL

Shield: Strand consists of copper or SOZ fields and can be combined with the copper tape.

کابل های مفتولی با هادی آلومینیومی
و امدادی را شل می باعث بگیرید
که پل کابل کارلینک شده
PVC و PVC

استاندارد:

ISIRI 3569, BS 5467, IEC 60502, VDE 0271

ولتاژ سیستم:

هادی: از سیس آلومینیومی پلاست

باعث: پل اندن کارلینک شده

PVC: پلینگ، ارجینس، PVC

PVC: PVC

آمور: از رشته های فولادی و آلومینیومی

SOZ: تشكیل شده رشته های میسی اسیدن شده

شده و می تولید تواری با نوار میسی بخواهد.



Aerial Copper Wire

Standard: BS 125
Rated Voltage: 20KV
Construction: Hard Copper (not annealed)

Application: These conductors are used for transferring electrical energy in distribution lines of low and middle voltage, where the distance of decks are shorter than each other and also used in the worst condition of weather. each wire of this conductors should be hard to bear mechanical events.

سیم های مسی لخت هولی

استاندارد: BS125
و ولتاژ اسپیس: 20 کیلوولت
ساخت: هادی از جنس سخت
بدون آبلیل
مواد صادر مصرف: اینگونه هادری ها در شکه های انتقال و ترانزیشن و متوجه به رعایت حریم اسفارده می شوند و به دلیل شرایط محیطی و آب و هوا که باید توانی تحمل شرایط سخت را داشته باشند.

| Size | Conductor Construction | Overall Diameter | Weight (Aprr) | Max. of Conductor Resistance at 20°C | Min. of Breaking load |
|-----------------|------------------------|------------------|---------------|--------------------------------------|-----------------------|
| mm ² | No-mm | mm | kg/km | Ω/km | KN |
| 10 | 7 x 1.35 | 4.1 | 90 | 1.806 | 4.1 |
| 16 | 7 x 1.70 | 5.1 | 143 | 1.1385 | 5.6 |
| 25 | 7 x 2.10 | 6.3 | 219 | 0.7461 | 9.9 |
| 35 | 7 x 2.50 | 7.5 | 310 | 0.5264 | 14.0 |
| 50 | 7 x 3.0 | 9.0 | 447 | 0.3656 | 20.2 |
| 50 | 19 x 1.78 | 8.9 | 438 | 0.3759 | 19.8 |
| 70 | 19 x 2.10 | 10.5 | 597 | 0.2762 | 26.9 |
| 95 | 19 x 2.50 | 12.5 | 846 | 0.1949 | 38.1 |

Copper Wire



3 ½ Core aluminum conductor PVC Insulated & sheathed Power cables (0.6/1KV)

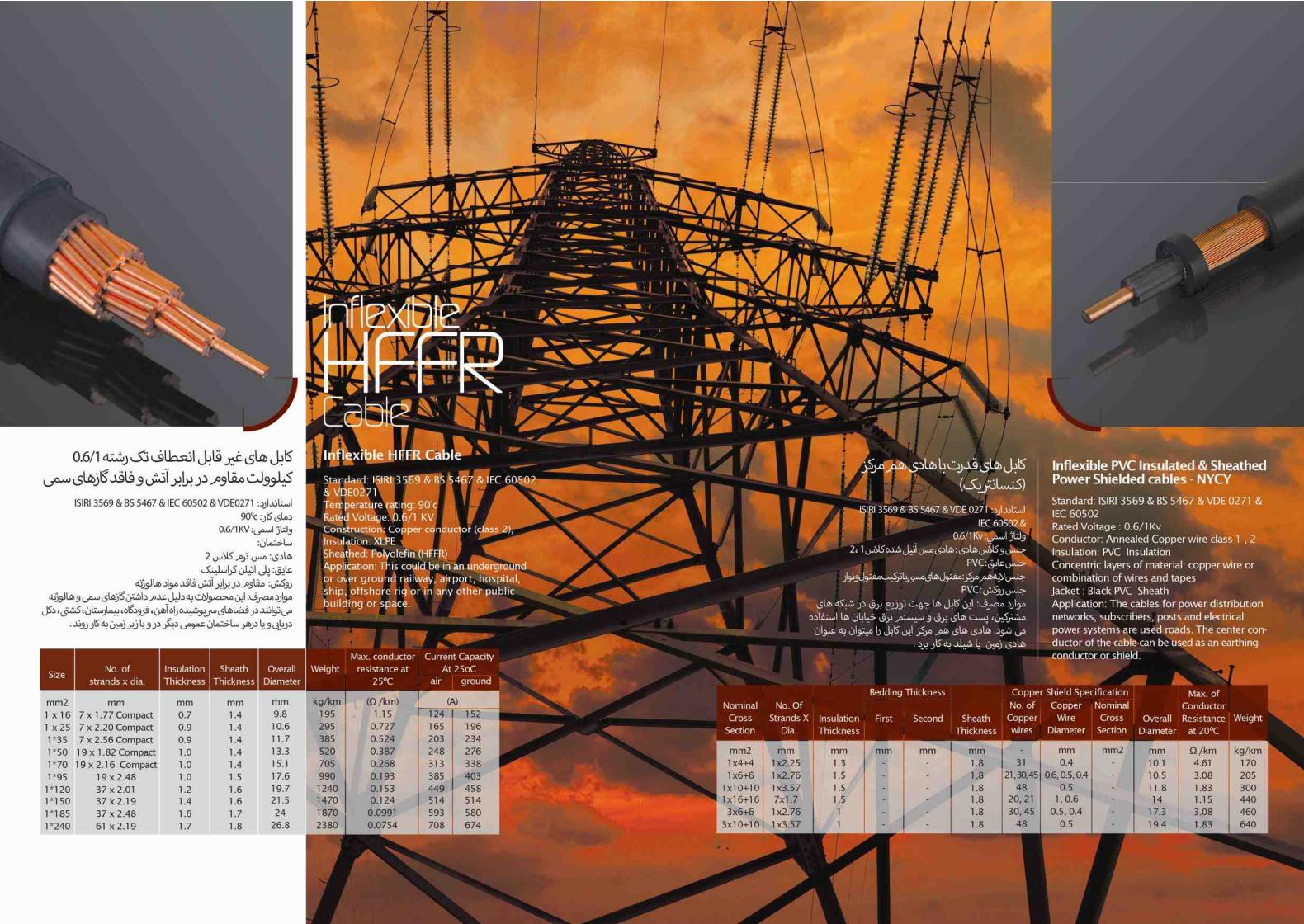
Standard:
IEC 60502 , VDE 0271 ISIRI 3569 , BS 5467
Rated Voltage : 0.6/1KV
Conductor: Class 2 is made of aluminum and the sector
Insulation: PVC
Sheath: PVC
Filler: PP or PVC

| Nominal Cross Section | Conductor Specification Number Of Strand | Diameter Of Strand | Insulation Thickness | Filler Thickness | Sheath Thikness | Overall Diameter | Weight |
|-----------------------|--|--------------------|----------------------|------------------|-----------------|------------------|-----------|
| mm ² | - | mm | mm | mm | mm | mm | Kg/Km |
| 3x25/16 | 7/7 | 2.16/1.74 | 1.2/1 | 0.98/0.8 | 1 | 1.8 | 24.5 312 |
| 3x35/16 | 7/7 | 2.57/1.74 | 1.2/1 | 0.98/0.8 | 1 | 1.8 | 26.8 970 |
| 3x50/25 | 7/7 | 3/2.14 | 1.4/1.2 | 1.16/0.98 | 2x30x0.035 | 1.9 | 28.5 960 |
| 3x70/35 | 19/7 | 2.14/2.57 | 1.4/1.2 | 1.16/0.98 | 2x35x0.050 | 2.0 | 32.5 1250 |
| 3x95/50 | 19/7 | 2.54/3 | 1.6/1.4 | 1.34/1.16 | 2x35x0.050 | 2.1 | 36.8 1649 |
| 3x120/70 | 37/19 | 2.03/2.14 | 1.6/1.4 | 1.34/1.16 | 2x35x0.050 | 2.2 | 39.8 2006 |
| 3x150/70 | 37/19 | 2.25/2.14 | 1.8/1.4 | 1.52/1.16 | 2x35x0.050 | 2.4 | 44.4 2407 |
| 3x185/95 | 37/19 | 2.48/2.54 | 2/1.6 | 1.70/1.34 | 2x35x0.050 | 2.5 | 47.3 2991 |
| 3x240/120 | 61/37 | 2.25/2.03 | 2.2/1.6 | 1.88/1.34 | 2x35x0.050 | 2.8 | 55.6 3839 |
| 3x300/150 | 61/37 | 2.52/2.25 | 2.4/1.8 | 2.06/1.52 | 2x35x0.050 | 2.9 | 61.5 4733 |



کابل های سه و نیم رشته با هادی آلومینیومی PVC با عایق و غاذی

استاندارد:
IEC 60502 , VDE 0271 ISIRI 3569 , BS 5467
و ولتاژ اسپیس: 0.6/1KV
هادی: از جنس آلومینیوم کلاس 2 و قطایق شکل PVC
عایق: PVC
غاذی: PVC
پرکننده: از جنس PP



کابل های غیر قابل انعطاف تک رشته ۱/۰.۶ کیلوولت مقاوم در برابر آتش و فاقد گازهای سمی

استاندارد: ISIRI 3569 & BS 5467 & IEC 60502 & VDE0271

دهی حرارتی: ۹۰°C

ولتاژ امنی: ۰.۶/۱KV

ساختگاه: سس نور کالسین ۲

هادی: سس نور کالسین ۲

عاقیق: پلی الیل کراس لاین

عاقیق: مغناطیسی پلی ایمید

پوشش: پلی ایمید

| Size | No. of strands x dia. | Insulation Thickness | Sheath Thickness | Overall Diameter | Weight | Max. conductor resistance at 25°C | Current Capacity At 25°C air | (A) |
|-----------------|-----------------------|----------------------|------------------|------------------|--------|-----------------------------------|------------------------------|-----|
| mm ² | mm | mm | mm | mm | kg/km | (Ω /km) | | |
| 1 x 16 | 7 x 1.77 Compact | 0.7 | 1.4 | 9.8 | 195 | 1.15 | 124 | 152 |
| 1 x 25 | 7 x 2.20 Compact | 0.9 | 1.4 | 10.6 | 295 | 0.727 | 165 | 196 |
| 1*35 | 7 x 2.56 Compact | 0.9 | 1.4 | 11.7 | 385 | 0.524 | 203 | 234 |
| 1*50 | 19 x 1.82 Compact | 1.0 | 1.4 | 13.3 | 520 | 0.387 | 248 | 276 |
| 1*70 | 19 x 2.16 Compact | 1.0 | 1.4 | 15.1 | 705 | 0.268 | 313 | 338 |
| 1*95 | 19 x 2.48 | 1.0 | 1.5 | 17.6 | 990 | 0.193 | 385 | 403 |
| 1*120 | 37 x 2.01 | 1.2 | 1.6 | 19.7 | 1240 | 0.153 | 449 | 458 |
| 1*150 | 37 x 2.19 | 1.4 | 1.6 | 21.5 | 1470 | 0.124 | 514 | 514 |
| 1*185 | 37 x 2.48 | 1.6 | 1.7 | 24 | 1870 | 0.0991 | 593 | 580 |
| 1*240 | 61 x 2.19 | 1.7 | 1.8 | 26.8 | 2380 | 0.0754 | 708 | 674 |

| Nominal Cross Section | No. Of Strands X Dia. | Bedding Thickness | | | | Copper No. of Copper wires | Shield Nominal Cross Section | Overall Diameter | Max. of Conductor Resistance at 20°C | Weight |
|-----------------------|-----------------------|----------------------|-------|--------|------------------|----------------------------|------------------------------|------------------|--------------------------------------|--------|
| | | Insulation Thickness | First | Second | Sheath Thickness | | | | | |
| mm ² | mm | mm | mm | mm | mm | mm | mm | mm | Ω /km | kg/km |
| 1x44 | 1x2.25 | 1.3 | - | - | 1.8 | 31 | 0.4 | - | 10.1 | 4.61 |
| 1x6+6 | 1x2.76 | 1.5 | - | - | 1.8 | 21,30,45 | 0.6,0.5,0.4 | - | 10.5 | 3.08 |
| 1x10+10 | 1x3.57 | 1.5 | - | - | 1.8 | 48 | 0.5 | - | 11.8 | 1.83 |
| 1x16+16 | 7x1.7 | 1.5 | - | - | 1.8 | 20,21 | 1, 0.6 | - | 14 | 1.15 |
| 3x6+6 | 1x2.76 | 1 | - | - | 1.8 | 30,45 | 0.5, 0.4 | - | 17.3 | 3.08 |
| 3x10+10 | 1x3.57 | 1 | - | - | 1.8 | 48 | 0.5 | - | 19.4 | 1.83 |

ACSR Cables

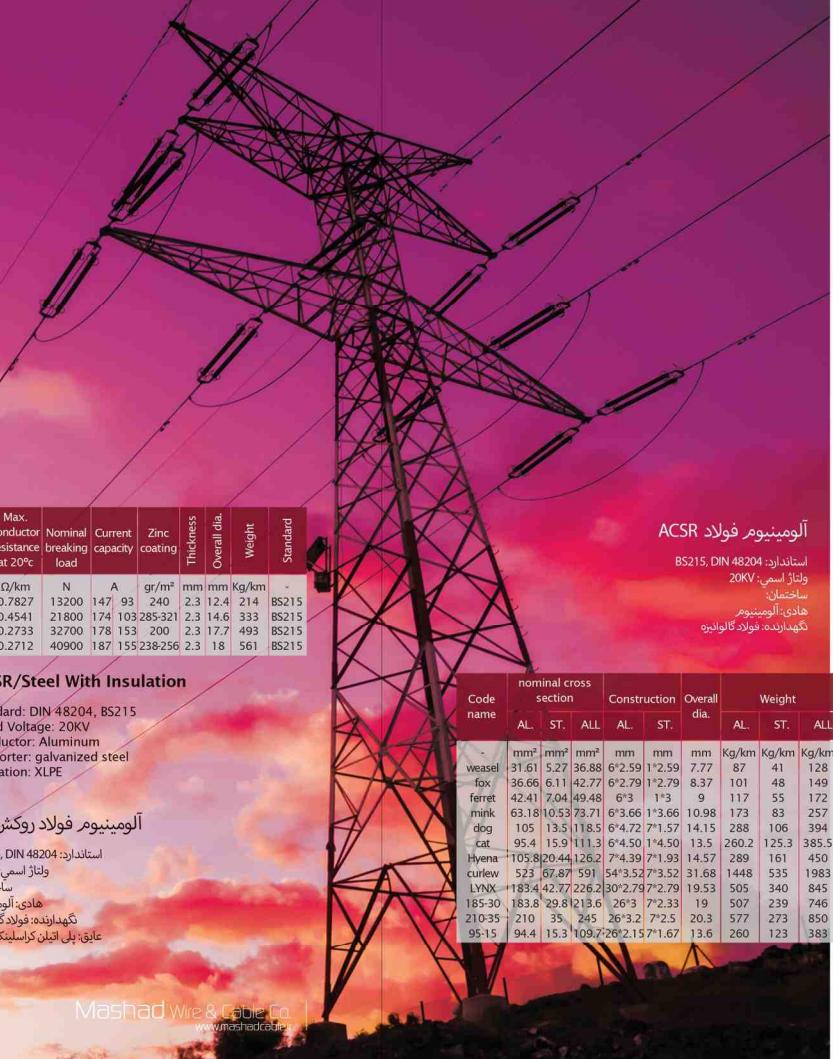
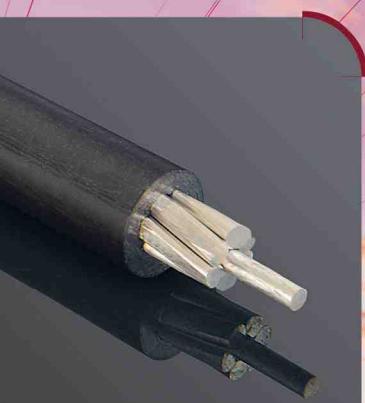
| Code name | nominal cross section | | | Construction | | | Weight | | | Max. conductor resistance at 20°C | Nominal breaking load | Current capacity | Zinc coating | Thickness | Overall dia. | Weight | Standard | |
|-----------|-----------------------|-----------------|-----------------|---------------------|-----------------------|------|--------|-------|-------|-----------------------------------|-----------------------|------------------|-------------------|-----------|--------------|--------|----------|-------|
| | AL. | ST. | ALL | AL. | ST. | ALL | AL. | ST. | ALL | | | | | | | | | |
| - | mm ² | mm ² | mm ² | mm | mm | mm | Kg/km | Kg/km | kg/km | Ω/km | N | A | gr/m ² | mm | mm | Kg/km | - | |
| fox | 36.66 | 6.11 | 42.77 | 6 ² 3.02 | 1 ² 2.79 | 7.80 | 101 | 48 | 149 | 0.7827 | 13200 | 147 | 93 | 240 | 2.3 | 12.4 | 214 | BS215 |
| mink | 63.18 | 10.53 | 73.71 | 6 ³ 3.88 | 1 ³ 3.66 | 10 | 173 | 83 | 257 | 0.4541 | 21800 | 174 | 103 | 285-32 | 2.3 | 14.6 | 333 | BS215 |
| dog | 105 | 13.5 | 118.5 | 6 ⁵ 0.07 | 71 ⁵ .57 | 13 | 288 | 106 | 394 | 0.2733 | 32700 | 178 | 153 | 200 | 2.3 | 17.7 | 493 | BS215 |
| hyena | 105.8 | 20.44 | 126.2 | 7 ⁴ 6.68 | 71 ¹ 93.15 | 5 | 299 | 161 | 456 | 0.2712 | 40900 | 187 | 155 | 238-252 | 2.3 | 18 | 561 | BS215 |

ACSR/Steel With Insulation

Standard: DIN 48204, BS215
 Rated Voltage: 20KV
 Conductor: Aluminum
 Supporter: galvanized steel
 Insulation: XLPE

آلومنیوم فولاد روکش دار

استاندارد: DIN 48204, 20KV
 ونایز اسمی: ساختمانی
 هارد: آلومنیوم
 نگهدارنده: فولاد گالوانیزه
 عایق: پلی اتیلن کاربید شده



آلومنیوم فولاد

استاندارد: DIN 48204, 20KV

و نایز اسمی:

ساختمانی:

هارد: آلومنیوم

نگهدارنده: فولاد گالوانیزه

ACSR/Steel

Standard: BS215, DIN 48204

Rated Voltage: 20KV

Construction:

Conductor: Aluminum

Supporter: galvanized Steel

| Code name | nominal cross section | | | Construction | | | Overall dia. | | | Weight | | | Max. conductor resistance at 20°C | Nominal breaking load | Current capacity | Zinc coating | Standard |
|-----------|-----------------------|-----------------|-----------------|----------------------|-----------------------|-------|--------------|-------|-------|---------|--------|-----|-----------------------------------|-----------------------|------------------|--------------|----------|
| | AL. | ST. | ALL | AL. | ST. | ALL | AL. | ST. | ALL | AL. | ST. | ALL | | | | | |
| - | mm ² | mm ² | mm ² | mm | mm | mm | Kg/km | Kg/km | kg/km | Ω/km | N | A | gr/m ² | - | - | - | - |
| wiesel | 31.61 | 5.27 | 36.88 | 6 ² 5.59 | 1 ² 2.59 | 7.77 | 87 | 41 | 128 | 0.9077 | 11400 | 134 | 84 | 240 | BS215 | | |
| fox | 36.66 | 6.11 | 42.77 | 6 ² 2.79 | 1 ² 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 3.66 | 1 ³ 3.66 | 10.98 | 173 | 83 | 257 | 0.4541 | 21800 | 174 | 103 | 260 | BS215 | | |
| dog | 105 | 13.5 | 118.5 | 6 ⁴ 7.2 | 71 ⁵ .57 | 14.15 | 288 | 106 | 394 | 0.2733 | 32700 | 278 | 153 | 200 | BS215 | | |
| cat | 95.4 | 15.9 | 111.3 | 6 ⁴ 5.0 | 14 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 6.68 | 71 ¹ 93.15 | 5 | 299 | 161 | 456 | 0.2712 | 40900 | 287 | 155 | 238-256 | BS215 | | |
| curlew | 523 | 67.87 | 591 | 54 ³ 3.52 | 71 ³ 3.52 | 31.68 | 1448 | 535 | 1983 | 0.05531 | 165061 | 715 | 177 | 215 | BS215 | | |
| LYNX | 183.4 | 42.77 | 226.2 | 30 ² 2.79 | 7 ² 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 3.33 | 19 | 507 | 239 | 746 | 0.1571 | 6620 | 386 | 185 | 208-235 DIN 48204 | | | |
| 210-35 | 210 | 35 | 245 | 26 ³ 2 | 7 ² 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 1.25 | 7 ¹ 6.7 | 13.6 | 260 | 123 | 383 | 0.3058 | 3575 | 260 | 145 | 200 | DIN 48204 | | |

**5 Core Self supporting aerial cable
(aerial bundled alloy cable) AAAC**

Standard: BS 7870

Rated Voltage : 0.6/1KV

Construction:

Phase conductor: stranded aluminum (class 2)
Null conductor/ support: aluminum AAAC
Insulation: black XLPE

کابل خودنگهدار بین شش
سازه های ریخته گشته /همار
AAAC

استاندارد: BS 7870

ولتاژ ایمنی: 0.6/1KV

ساخته:

هادی فاز / دوسته: الومینیم تاییده شده کلاس 2
هادی نول/ مهار: الومینیم تاییده شده کلاس 2
عایق: پلی اتیلن کراس لاینک مشک

| Size nominal cross section mm ² | Insulation thickness | | | Insulation thickness | | | Overall diameter mm | Weight Kg/km | Breaking load N | | |
|--|----------------------|------|----------|----------------------|-------|------|------------------------|-----------------|--------------------|------|-------|
| | Phase | Null | lighting | support | Phase | Null | lighting | | | | |
| | | | | AAAC | | | | AAAC | | | |
| 3*35+16+50 | 7*2.57 | — | 7*1.74 | 7*3.15 | 1.6 | — | 1.2 | 1.6 | 27.0 | 653 | 36000 |
| 3*50+16+50 | 7*3 | — | 7*1.74 | 7*3.15 | 1.6 | — | 1.2 | 1.6 | 29.0 | 767 | 40000 |
| 3*70+16+70 | 19*2.16 | — | 7*1.74 | 7*3.61 | 1.8 | — | 1.2 | 1.6 | 33 | 1020 | 57000 |
| 3*70+25+70 | 19*2.16 | — | 7*2.16 | 7*3.61 | 1.8 | — | 1.4 | 1.6 | 33.8 | 1050 | 58000 |
| 3*95+16+70 | 19*2.54 | — | 7*1.74 | 7*3.61 | 1.8 | — | 1.2 | 1.6 | 35.80 | 1245 | 94000 |

Aerial Cable

کابل خودنگهدار دور شته ای
دور شته یا یک فاز و یک نول

استاندارد: BS 7870
ولتاژ ایمنی: 0.6/1KV

ساخته:

هادی فاز: الومینیم تاییده شده کلاس 2
هادی نول: الومینیم تاییده شده کلاس 2
عایق: پلی اتیلن کراس لاینک مشک

2 Core Self supporting aerial cable (aerial bundled cable)

Standard: BS 7870

Rated Voltage : 0.6/1KV

Construction:

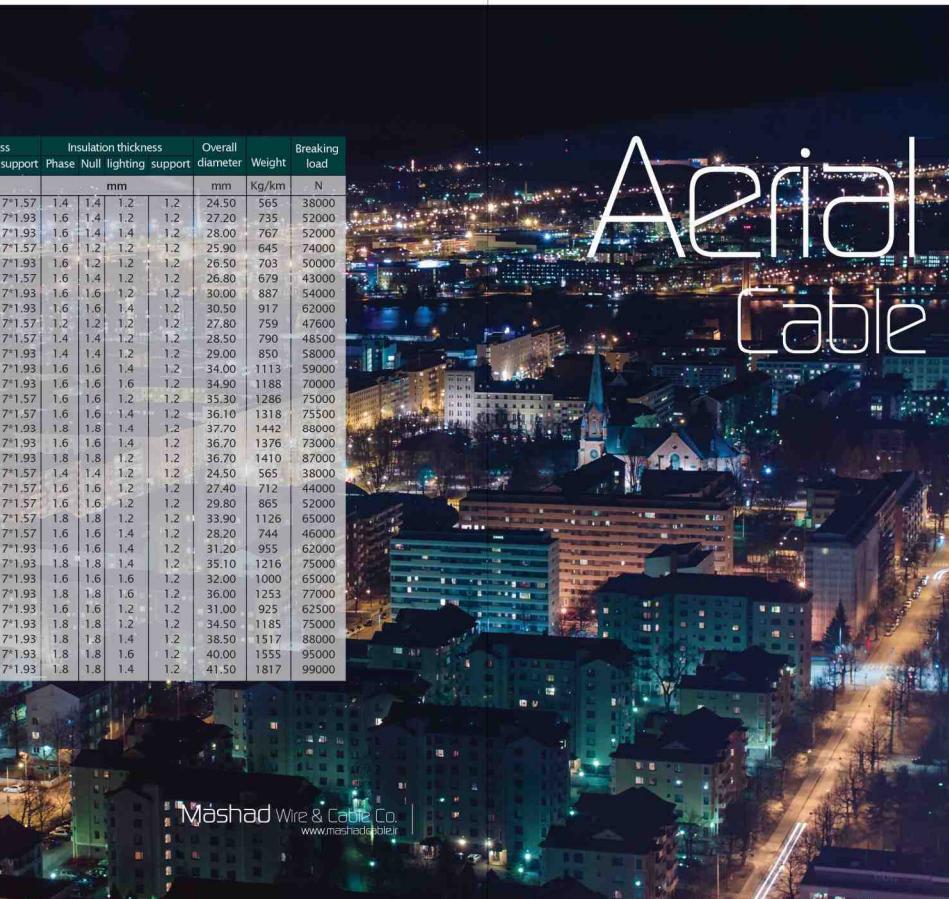
Phase conductor: stranded aluminum (class 2)
Null conductor: stranded aluminum (class 2)

Insulation: black XLPE

| Size nominal cross section mm ² | Insulation thickness | | | Insulation thickness | | | Overall diameter mm | Weight kg/km | Breaking load N | | |
|--|----------------------|--------|----------|----------------------|------|----------|------------------------|-----------------|--------------------|---|---|
| | support | Null | lighting | support | Null | lighting | | | | | |
| 1*16+16 | 7*1.74 | 7*1.74 | — | — | — | — | 1.1 | 1.1 | — | — | — |
| 1*25+25 | 7*2.16 | 7*2.16 | — | — | — | — | 1.3 | 1.3 | — | — | — |
| 1*35+35 | 7*2.57 | 7*2.57 | — | — | — | — | 1.3 | 1.3 | — | — | — |

| Size nominal cross section | Insulation thickness mm | | | Insulation thickness mm | | | Overall diameter mm | Weight Kg/km | Breaking load N | | |
|-------------------------------|----------------------------|---------|----------|----------------------------|-------|------|---------------------------|-----------------|-----------------------|-------|-------|
| | Phase | Null | lighting | support | Phase | Null | lighting | support | | | |
| 3*25+25+16+16 | 7*2.16 | 7*2.16 | 7*1.74 | 7*1.57 | 1.4 | 1.4 | 1.2 | 1.2 | 24.50 | 565 | 38000 |
| 3*35+25+16+25 | 7*2.57 | 7*2.16 | 7*1.74 | 7*1.93 | 1.6 | 1.4 | 1.2 | 1.2 | 27.20 | 735 | 52000 |
| 3*35+25+25+25 | 7*2.57 | 7*2.16 | 7*2.16 | 7*1.93 | 1.6 | 1.4 | 1.4 | 1.2 | 28.00 | 767 | 52000 |
| 3*35+16+16+16 | 7*2.57 | 7*1.74 | 7*1.74 | 7*1.57 | 1.6 | 1.2 | 1.2 | 1.2 | 25.90 | 645 | 74000 |
| 3*35+16+16+25 | 7*2.57 | 7*2.16 | 7*1.74 | 7*1.93 | 1.6 | 1.2 | 1.2 | 1.2 | 26.50 | 703 | 50000 |
| 3*35+25+16+16 | 7*2.57 | 7*2.16 | 7*1.74 | 7*1.57 | 1.6 | 1.4 | 1.2 | 1.2 | 26.80 | 679 | 43000 |
| 3*50+35+16+25 | 7*3 | 7*2.57 | 7*1.74 | 7*1.93 | 1.6 | 1.6 | 1.2 | 1.2 | 30.00 | 887 | 54000 |
| 3*50+35+25+25 | 7*3 | 7*2.57 | 7*2.16 | 7*1.93 | 1.6 | 1.6 | 1.4 | 1.2 | 30.50 | 917 | 62000 |
| 3*50+16+16+16 | 7*3 | 7*1.74 | 7*1.74 | 7*1.57 | 1.2 | 1.2 | 1.2 | 1.2 | 27.80 | 759 | 47600 |
| 3*50+25+16+16 | 7*3 | 7*2.16 | 7*1.74 | 7*1.57 | 1.4 | 1.4 | 1.2 | 1.2 | 28.50 | 790 | 48500 |
| 3*50+25+16+25 | 7*3 | 7*2.16 | 7*1.74 | 7*1.93 | 1.4 | 1.4 | 1.2 | 1.2 | 29.00 | 850 | 58000 |
| 3*70+35+25+25 | 19*2.16 | 7*2.57 | 7*2.16 | 7*1.93 | 1.6 | 1.6 | 1.4 | 1.2 | 34.00 | 1113 | 59000 |
| 3*70+50+35+25 | 19*2.16 | 7*3 | 7*2.57 | 7*1.93 | 1.6 | 1.6 | 1.6 | 1.2 | 34.90 | 1188 | 70000 |
| 3*95+50+16+16 | 19*2.54 | 7*3 | 7*1.74 | 7*1.57 | 1.6 | 1.6 | 1.2 | 1.2 | 35.30 | 1286 | 75000 |
| 3*95+50+25+16 | 19*2.54 | 7*3 | 7*2.16 | 7*1.57 | 1.6 | 1.6 | 1.4 | 1.2 | 36.10 | 1318 | 75500 |
| 3*95+70+16+25 | 19*2.54 | 19*2.16 | 7*2.16 | 7*1.93 | 1.8 | 1.8 | 1.4 | 1.2 | 37.70 | 1442 | 88000 |
| 3*95+50+25+25 | 19*2.54 | 7*3 | 7*2.16 | 7*1.93 | 1.6 | 1.6 | 1.4 | 1.2 | 36.70 | 1376 | 73000 |
| 3*95+70+16+25 | 19*2.54 | 19*2.16 | 7*1.74 | 7*1.93 | 1.8 | 1.8 | 1.2 | 1.2 | 36.70 | 1410 | 87000 |
| 4*25+16+16 | 7*2.16 | 7*2.16 | 7*1.74 | 7*1.57 | 1.4 | 1.4 | 1.2 | 1.2 | 24.50 | 565 | 38000 |
| 4*35+16+16 | 7*2.57 | 7*2.57 | 7*1.74 | 7*1.57 | 1.6 | 1.6 | 1.2 | 1.2 | 27.40 | 712 | 44000 |
| 4*50+16+16 | 7*3 | 7*1.74 | 7*1.57 | 1.6 | 1.6 | 1.2 | 1.2 | 29.80 | 865 | 52000 | |
| 4*70+16+16 | 19*2.16 | 19*2.16 | 7*1.74 | 7*1.57 | 1.8 | 1.8 | 1.2 | 1.2 | 33.90 | 1126 | 65000 |
| 4*35+25+16 | 7*2.57 | 7*2.57 | 7*2.16 | 7*1.57 | 1.6 | 1.6 | 1.4 | 1.2 | 28.20 | 744 | 46000 |
| 4*50+25+25 | 7*3 | 7*3 | 7*2.16 | 7*1.93 | 1.6 | 1.6 | 1.4 | 1.2 | 31.20 | 955 | 62000 |
| 4*70+25+25 | 19*2.16 | 19*2.16 | 7*2.16 | 7*1.93 | 1.8 | 1.8 | 1.4 | 1.2 | 35.10 | 1216 | 75000 |
| 4*50+35+25 | 7*3 | 7*3 | 7*2.57 | 7*1.93 | 1.6 | 1.6 | 1.6 | 1.2 | 32.00 | 1000 | 65000 |
| 4*70+35+25 | 19*2.16 | 19*2.16 | 7*2.57 | 7*1.93 | 1.8 | 1.8 | 1.6 | 1.2 | 36.00 | 1253 | 77000 |
| 4*50+16+25 | 7*3 | 7*3 | 7*1.74 | 7*1.93 | 1.6 | 1.6 | 1.2 | 1.2 | 31.00 | 925 | 62500 |
| 4*70+16+25 | 19*2.16 | 19*2.16 | 7*1.74 | 7*1.93 | 1.8 | 1.8 | 1.2 | 1.2 | 34.50 | 1185 | 75000 |
| 4*95+25+25 | 19*2.54 | 7*2.57 | 7*2.16 | 7*1.93 | 1.8 | 1.8 | 1.4 | 1.2 | 38.50 | 1517 | 88000 |
| 4*95+35+25 | 19*2.54 | 19*2.54 | 7*2.57 | 7*1.93 | 1.8 | 1.8 | 1.6 | 1.2 | 40.00 | 1555 | 95000 |
| 4*120+25+25 | 37*2.06 | 37*2.06 | 7*2.16 | 7*1.93 | 1.8 | 1.8 | 1.4 | 1.2 | 41.50 | 1817 | 99000 |

Aerial Cable



6 Core Self supporting aerial cable (aerial bundled cable)

Standard: BS 7870
Rated Voltage: 0.6/1KV
Construction:
Phase/lighting conductor: stranded aluminum (class 2)
Null conductor: stranded aluminum (class 2)
Insulation: black XLPE
Support: stranded steel
Support insulation: black HDPE or black XLPE

کابل خودنگهدارشونر شش ته سه فاز و یک نول و یک روشنایی و یک مهار

BS 7870 : استاندارد
 ولتاژ اسپری : 0.6/1KV
 مصارعه : ساختمان
 هادی فاز/ روشنایی : آلومنیوم تایپه شده کلاس 2
 هادی نول : آلومنیوم تایپه شده کلاس 2
 عایق : پلی انولن کراس استیند مشی
 مهار : بسته های قویابی
 عایق مهار : پلی اتیلن کراس لینک با پلی اتیلن سیگن مشی

CCV Line 10-63 kV

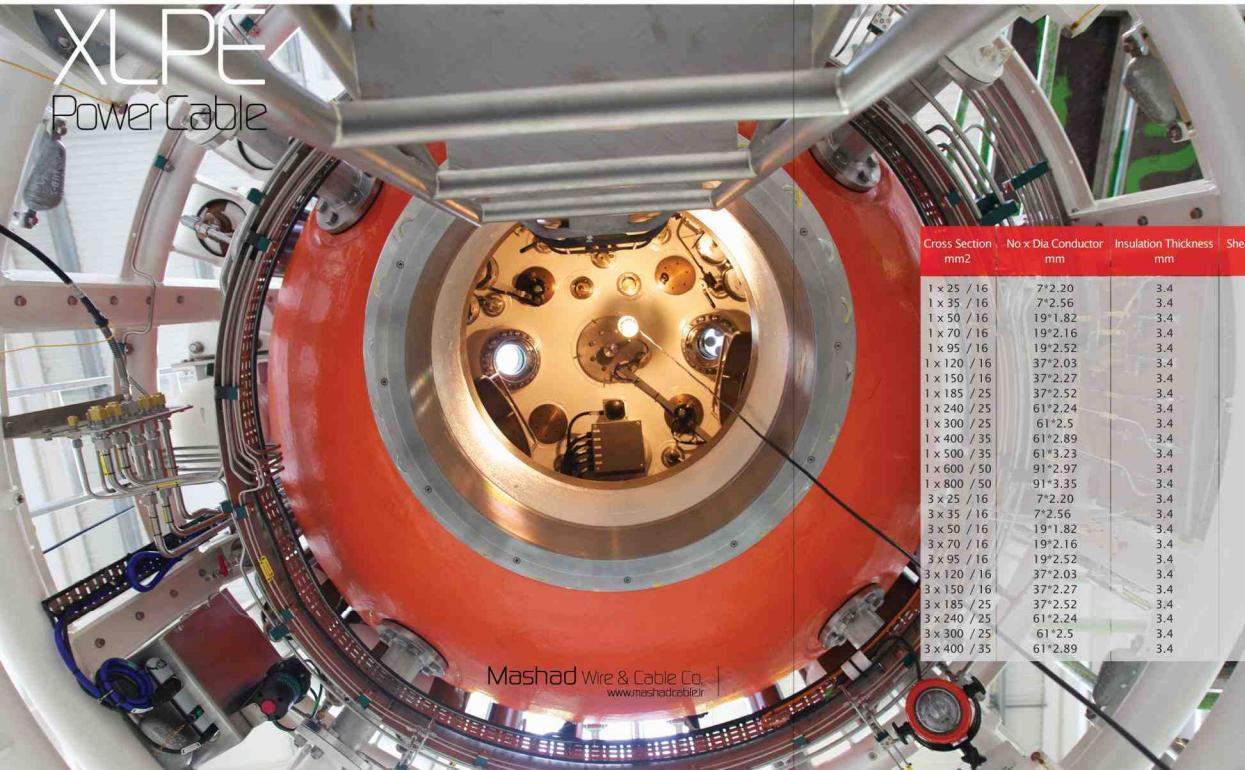
Standards:
IEC 60502-2
ISIRI 3569-2
VDE 0276-620

Medium Voltage cables, or MV cables, are types of world standards in which defined by the International Electrotechnical Commission or (IEC) that contains the range of Voltage from 1kV up to 100kV.

However it is not all and just remain some ambiguity with these medium voltage cables because end ends, it depends on the countries, the standards and the type of system that referred to low voltage and high voltage. The concept of medium voltage was only introduced as the level of voltages increased from low voltage before high voltage and the need arose for it to be called which now often includes extra low and extra high voltage.

Mashad wire & cable co. Cables is a leading supplier of medium voltage cables, which we consider to range between 10kV and 63kV. Our MV XLPE insulated cables are manufactured in accordance with various British and international Standards. These include armoured cable to British Standard BS6622 and BS7835; International Standards IEC 60502-2 and IEC 60502-2, as well as a wide range of international construction specifications, including N2XSY, N2XS2Y, N2XSEY, NA2XSY and NA2XS2Y

Unarmoured XLPE Power Cable



Mashad Wire & Cable Co.
www.mashadcable.ir



مشهد کابل
Mashad
Wire & Cable Co.

UNARMOURED XLPE MV POWER CABLES 6/10(12)KV

Single Core / Three Core
Standards: IEC 60502-2, ISIRI 3569-2

Construction:
CU or AL/SC/XLPE/SC/SCT/CWS/
PVC

Stranded & Compacted Copper or Aluminium Conductor
Conductor Screen of Semi-Conductive Compound
XLPE Insulation
Insulation Screen of Semi-Conductive Compound
Semi-Conductive Bedding Tape
Copper Wire Screen
PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro |
|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|--------------------|
| | | | | | CU AL Kg/Km |
| 1 x 25 / 16 | 7*2.20 | 3.4 | 1.8 | 23 | 750 595 |
| 1 x 35 / 16 | 7*2.56 | 3.4 | 1.8 | 24 | 864 658 |
| 1 x 50 / 16 | 19*1.82 | 3.4 | 1.8 | 25 | 1018 730 |
| 1 x 70 / 16 | 19*2.16 | 3.4 | 1.8 | 27 | 1230 825 |
| 1 x 95 / 16 | 19*2.52 | 3.4 | 1.9 | 29 | 1500 950 |
| 1 x 120 / 16 | 37*2.03 | 3.4 | 1.9 | 30 | 1751 1054 |
| 1 x 150 / 16 | 37*2.27 | 3.4 | 2.0 | 32 | 2060 1188 |
| 1 x 185 / 25 | 37*2.52 | 3.4 | 2.0 | 34 | 2475 1402 |
| 1 x 240 / 25 | 61*2.24 | 3.4 | 2.1 | 36 | 3025 1627 |
| 1 x 300 / 25 | 61*2.5 | 3.4 | 2.2 | 39 | 3600 1857 |
| 1 x 400 / 35 | 61*2.89 | 3.4 | 2.3 | 42 | 4641 2314 |
| 1 x 500 / 35 | 61*3.23 | 3.4 | 2.4 | 45 | 5580 2673 |
| 1 x 600 / 50 | 91*2.97 | 3.4 | 2.5 | 49 | 6920 3254 |
| 1 x 800 / 50 | 91*3.35 | 3.4 | 2.7 | 53 | 8522 3858 |
| 3 x 25 / 16 | 7*2.20 | 3.4 | 2.4 | 45 | 2009 1541 |
| 3 x 35 / 16 | 7*2.56 | 3.4 | 2.5 | 48 | 2361 1737 |
| 3 x 50 / 16 | 19*1.82 | 3.4 | 2.6 | 51 | 2834 1962 |
| 3 x 70 / 16 | 19*2.16 | 3.4 | 2.7 | 55 | 3485 2258 |
| 3 x 95 / 16 | 19*2.52 | 3.4 | 2.8 | 59 | 4273 2603 |
| 3 x 120 / 16 | 37*2.03 | 3.4 | 3.0 | 62 | 5046 2936 |
| 3 x 150 / 16 | 37*2.27 | 3.4 | 3.1 | 67 | 5982 3344 |
| 3 x 185 / 25 | 37*2.52 | 3.4 | 3.3 | 73 | 7264 4013 |
| 3 x 240 / 25 | 61*2.24 | 3.4 | 3.5 | 78 | 8931 4696 |
| 3 x 300 / 25 | 61*2.5 | 3.4 | 3.7 | 85 | 10675 5399 |
| 3 x 400 / 35 | 61*2.89 | 3.4 | 3.3 | 42 | 13832 6783 |

Wire Armoured MV Power Cables

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Dia Wire Armoured Approx mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro Kg/Km | CU AL |
|-------------------------------|-----------------------|-------------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------------------|-------|
| 1 x 25 / 16 | 7*2.20 | 3.4 | 1.0 | 1.6 | 1.8 | 26.00 | 1031 | 875 |
| 1 x 35 / 16 | 7*2.56 | 3.4 | 1.0 | 1.6 | 1.8 | 27.00 | 1164 | 958 |
| 1 x 50 / 16 | 19*1.82 | 3.4 | 1.0 | 1.6 | 1.8 | 28.00 | 1332 | 1044 |
| 1 x 70 / 16 | 19*2.16 | 3.4 | 1.0 | 1.6 | 1.9 | 30.00 | 1580 | 1174 |
| 1 x 95 / 16 | 19*2.52 | 3.4 | 1.0 | 1.6 | 2.0 | 32.00 | 1875 | 1325 |
| 1 x 120 / 16 | 37*2.03 | 3.4 | 1.2 | 2.0 | 2.0 | 34.00 | 2237 | 1541 |
| 1 x 150 / 16 | 37*2.27 | 3.4 | 1.2 | 2.0 | 2.1 | 36.00 | 2612 | 1741 |
| 1 x 185 / 25 | 37*2.52 | 3.4 | 1.2 | 2.0 | 2.2 | 38.00 | 3070 | 1997 |
| 1 x 240 / 25 | 61*2.24 | 3.4 | 1.2 | 2.0 | 2.3 | 41.00 | 3666 | 2269 |
| 1 x 300 / 25 | 61*2.5 | 3.4 | 1.2 | 2.0 | 2.3 | 43.00 | 4267 | 2525 |
| 1 x 400 / 35 | 61*2.89 | 3.4 | 1.2 | 2.5 | 2.5 | 48.00 | 5538 | 3212 |
| 1 x 500 / 35 | 61*3.23 | 3.4 | 1.4 | 2.5 | 2.6 | 51.00 | 6596 | 3689 |
| 1 x 630 / 50 | 91*2.97 | 3.4 | 1.4 | 2.5 | 2.7 | 55.00 | 8010 | 4345 |
| 1 x 800 / 50 | 91*3.35 | 3.4 | 1.4 | 2.5 | 2.8 | 59.00 | 9680 | 5016 |
| 3 x 25 / 16 | 7*2.20 | 3.4 | 1.4 | 2.5 | 2.6 | 50 | 3172 | 1847 |
| 3 x 35 / 16 | 7*2.56 | 3.4 | 1.4 | 2.5 | 2.7 | 53 | 3591 | 2966 |
| 3 x 50 / 16 | 19*1.82 | 3.4 | 1.4 | 2.5 | 2.8 | 56 | 4148 | 3277 |
| 3 x 70 / 16 | 19*2.16 | 3.4 | 1.6 | 2.5 | 2.9 | 60 | 4961 | 3735 |
| 3 x 95 / 16 | 19*2.52 | 3.4 | 1.6 | 2.5 | 3.0 | 64 | 5857 | 4188 |
| 3 x 120 / 16 | 37*2.03 | 3.4 | 1.6 | 2.5 | 3.1 | 67 | 6721 | 4611 |
| 3 x 150 / 16 | 37*2.27 | 3.4 | 1.6 | 2.5 | 3.3 | 71 | 7753 | 5115 |
| 3 x 185 / 25 | 37*2.52 | 3.4 | 1.8 | 3.15 | 3.5 | 78 | 9600 | 6349 |
| 3 x 240 / 25 | 61*2.24 | 3.4 | 1.8 | 3.15 | 3.6 | 83 | 11404 | 7170 |
| 3 x 300 / 25 | 61*2.5 | 3.4 | 1.8 | 3.15 | 3.8 | 88 | 13317 | 8043 |
| 3 x 400 / 35 | 61*2.89 | 3.4 | 1.8 | 3.15 | 4.1 | 96 | 16759 | 9710 |
| 3 x 25 / 16 | 7*2.20 | 3.4 | 1.4 | 2.5 | 2.6 | 50 | 4525 | 4054 |
| 3 x 35 / 16 | 7*2.56 | 3.4 | 1.4 | 2.5 | 2.7 | 53 | 5020 | 4397 |
| 3 x 50 / 16 | 19*1.82 | 3.4 | 1.4 | 2.5 | 2.8 | 56 | 5680 | 4810 |
| 3 x 70 / 16 | 19*2.16 | 3.4 | 1.6 | 2.5 | 2.9 | 60 | 6621 | 5394 |
| 3 x 95 / 16 | 19*2.52 | 3.4 | 1.6 | 2.5 | 3.0 | 64 | 7644 | 5975 |
| 3 x 120 / 16 | 37*2.03 | 3.4 | 1.6 | 2.5 | 3.1 | 67 | 8611 | 6501 |
| 3 x 150 / 16 | 37*2.27 | 3.4 | 1.6 | 2.5 | 3.3 | 71 | 9745 | 7106 |
| 3 x 185 / 25 | 37*2.52 | 3.4 | 1.8 | 3.15 | 3.5 | 78 | 12316 | 9065 |
| 3 x 240 / 25 | 61*2.24 | 3.4 | 1.8 | 3.15 | 3.6 | 83 | 14324 | 10088 |
| 3 x 300 / 25 | 61*2.5 | 3.4 | 1.8 | 3.15 | 3.8 | 88 | 16440 | 11164 |
| 3 x 400 / 35 | 61*2.89 | 3.4 | 1.8 | 3.15 | 4.1 | 96 | 20164 | 13114 |

Mashad Wire & Cable Co.
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WIRE ARMOUR XLPE MV POWER CABLES U0/U(Um)=6/10(12)KV

Aluminium Wire Armoured Single Core N2XSYRY/ NA2XSYRY
Steel Wire Armoured Three Core N2XSEYR/ NA2XSEYRY

Standards: IEC 60502-2, ISIRI 3569-2

Construction:
CU or AL/SC/XLPE/SC/SCT/CWS/PVC(Bd)/AWA or SWA/PVC

Stranded & Compacted Copper or Aluminium Conductor
Conductor Screen of Semi-Conductive Compound
XLPE Insulation
Insulation Screen of Semi-Conductive Compound
Semi-Conductive Bedding Tape
Copper Wire Screen
PVC bedding
Wire Armour
PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)



Tape Armoured XLPE Power Cable



Mashad
Wire & Cable Co.
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TAPE ARMoured XLPE MV POWER CABLES U0/U(Um)=6/10(12)KV

Aluminium : Tape Armoured SingleCore N2XSYBV/ NA2XSYBY
 Steel : Tape Armoured ThreeCore N2XSEYBV/ NA2XSEYBY
 Standards : IEC 60502-2, ISIRI 3569-2
 Construction: CU or AL/SC/XLPE/SC/SCT/CWS/PVC(8d)/ATA or STA/PVC
 Stranded & Compacted Copper or Aluminium Conductor
 Conductor Screen of Semi-Conductive Compound

XLPE Insulation

Insulation Screen of Semi-Conductive Compound

Semi-Conductive Bedding Tape

Copper Wire Screen

PVC Bedding

Double Tape Armour

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath is also available on request)

| | Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Thickness tape Armoured mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro mm | CU Kg/Km | AL Kg/Km |
|------------------------------|-------------------------------|-----------------------|-------------------------|----------------------|----------------------------|---------------------|--------------------------|-----------------------|----------|----------|
| 6/10(12)0 Single Core | | | | | | | | | | |
| | 1 x 25 / 16 | 7*2.20 | 3.4 | 1.0 | 0.2 | 1.8 | 24 | 844 | 690 | |
| | 1 x 35 / 16 | 7*2.56 | 3.4 | 1.0 | 0.2 | 1.8 | 25 | 964 | 758 | |
| | 1 x 50 / 16 | 9*1.84 | 3.4 | 1.0 | 0.2 | 1.8 | 26 | 1124 | 835 | |
| | 1 x 70 / 16 | 19*1.6 | 3.4 | 1.0 | 0.2 | 1.8 | 30 | 1343 | 938 | |
| | 1 x 95 / 16 | 19*2.52 | 3.4 | 1.0 | 0.2 | 1.9 | 31 | 1621 | 1070 | |
| | 1 x 120 / 16 | 37*2.03 | 3.4 | 1.0 | 0.2 | 1.9 | 36 | 1878 | 1182 | |
| | 1 x 150 / 16 | 37*2.27 | 3.4 | 1.2 | 0.2 | 2.0 | 33 | 2230 | 1360 | |
| | 1 x 185 / 25 | 37*2.52 | 3.4 | 1.2 | 0.5 | 2.1 | 36 | 2783 | 1710 | |
| | 1 x 240 / 25 | 61*2.24 | 3.4 | 1.2 | 0.5 | 2.2 | 39 | 3354 | 1956 | |
| | 1 x 300 / 25 | 61*2.5 | 3.4 | 1.2 | 0.5 | 2.3 | 41 | 3950 | 2210 | |
| | 1 x 400 / 35 | 61*2.89 | 3.4 | 1.4 | 0.5 | 2.4 | 45 | 5073 | 2746 | |
| 6/10(12)0 Three Core | | | | | | | | | | |
| | 1 x 500 / 35 | 61*3.23 | 3.4 | 1.4 | 0.5 | 2.5 | 48 | 6042 | 3136 | |
| | 1 x 630 / 50 | 91*2.97 | 3.4 | 1.4 | 0.5 | 2.6 | 52 | 7417 | 3752 | |
| | 1 x 800 / 50 | 91*3.35 | 3.4 | 1.6 | 0.5 | 2.8 | 57 | 9122 | 4458 | |
| | 3 x 25 / 16 | 7*2.20 | 3.4 | 1.4 | 0.5 | 2.5 | 47 | 2605 | 2112 | |
| | 3 x 35 / 16 | 7*2.56 | 3.4 | 1.4 | 0.5 | 2.5 | 49 | 2971 | 2346 | |
| | 3 x 50 / 16 | 19*1.82 | 3.4 | 1.4 | 0.5 | 2.6 | 52 | 3486 | 2615 | |
| | 3 x 70 / 16 | 19*2.16 | 3.4 | 1.6 | 0.5 | 2.8 | 57 | 4722 | 3045 | |
| | 3 x 95 / 16 | 19*2.52 | 3.4 | 1.6 | 0.5 | 2.9 | 60 | 5115 | 3446 | |
| | 3 x 120 / 16 | 37*2.27 | 3.4 | 1.6 | 0.5 | 3.0 | 64 | 5940 | 3920 | |
| | 3 x 150 / 16 | 37*2.52 | 3.4 | 1.6 | 0.5 | 3.1 | 67 | 6900 | 4262 | |
| | 3 x 185 / 25 | 37*2.52 | 3.4 | 1.8 | 0.5 | 3.3 | 73 | 8360 | 5109 | |
| | 3 x 240 / 25 | 61*2.24 | 3.4 | 1.8 | 0.5 | 3.5 | 77 | 10111 | 5876 | |
| | 3 x 300 / 25 | 61*2.5 | 3.4 | 1.8 | 0.8 | 3.7 | 84 | 12186 | 6910 | |
| | 3 x 400 / 35 | 61*2.89 | 3.4 | 1.8 | 0.8 | 3.9 | 91 | 15485 | 8436 | |
| 6/10(12)0 Three Core | | | | | | | | | | |
| | 3 x 25 / 16 | 7*2.20 | 3.4 | 1.4 | 0.5 | 2.5 | 47 | 3007 | 2510 | |
| | 3 x 35 / 16 | 7*2.56 | 3.4 | 1.4 | 0.5 | 2.5 | 49 | 3395 | 2770 | |
| | 3 x 50 / 16 | 19*1.82 | 3.4 | 1.4 | 0.5 | 2.6 | 52 | 3942 | 3071 | |
| | 3 x 70 / 16 | 19*2.16 | 3.4 | 1.6 | 0.5 | 2.8 | 57 | 4766 | 3540 | |
| | 3 x 95 / 16 | 19*2.52 | 3.4 | 1.6 | 0.5 | 2.9 | 60 | 5645 | 3975 | |
| | 3 x 120 / 16 | 37*2.03 | 3.4 | 1.6 | 0.5 | 3.0 | 64 | 6500 | 4391 | |
| | 3 x 150 / 16 | 37*2.27 | 3.4 | 1.6 | 0.5 | 3.1 | 67 | 7497 | 4859 | |
| | 3 x 185 / 25 | 37*2.52 | 3.4 | 1.8 | 0.5 | 3.3 | 73 | 9004 | 5753 | |
| | 3 x 240 / 25 | 61*2.24 | 3.4 | 1.8 | 0.5 | 3.5 | 77 | 10804 | 6568 | |
| | 3 x 300 / 25 | 61*2.5 | 3.4 | 1.8 | 0.8 | 3.7 | 84 | 13370 | 8094 | |
| | 3 x 400 / 35 | 61*2.89 | 3.4 | 1.8 | 0.8 | 3.9 | 91 | 16781 | 9732 | |

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info@mashadable.com

Unarmoured XLPE MV Power Cable



| | Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU Kg/Km | Appro AL |
|---|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|-----------------------------|----------|
| 12/20(24)KV Three Core Cu&Al/Sc/Sc/XLPE/Sc/Sc/CW/PVC | 3 x 35 / 16 | 7*2.56 | 5.5 | 2.7 | 54 | 2895 | 2271 |
| | 3 x 50 / 16 | 19*1.82 | 5.5 | 2.8 | 57 | 3401 | 2530 |
| | 3 x 70 / 16 | 19*2.16 | 5.5 | 2.9 | 61 | 4091 | 2864 |
| | 3 x 95 / 16 | 19*2.52 | 5.5 | 3.1 | 65 | 4949 | 3279 |
| | 3 x 120 / 16 | 37*2.03 | 5.5 | 3.2 | 69 | 5760 | 3650 |
| | 3 x 150 / 16 | 37*2.27 | 5.5 | 3.3 | 72 | 6706 | 4068 |
| | 3 x 185 / 25 | 37*2.52 | 5.5 | 3.4 | 76 | 8030 | 4778 |
| | 3 x 240 / 25 | 61*2.24 | 5.5 | 3.6 | 82 | 9755 | 5520 |
| | 3 x 300 / 25 | 61*2.5 | 5.5 | 3.8 | 87 | 11553 | 6278 |
| | 3 x 400 / 35 | 61*2.89 | 5.5 | 4.0 | 95 | 14790 | 7741 |
| 12/20(24)KV Single Core Cu&Al/Sc/Sc/XLPE/Sc/Sc/CW/PVC | 1 x 35 / 16 | 7*2.56 | 5.5 | 1.8 | 25.40 | 941 | 735 |
| | 1 x 50 / 16 | 19*1.82 | 5.5 | 1.8 | 26.80 | 1099 | 810 |
| | 1 x 70 / 16 | 19*2.16 | 5.5 | 1.9 | 28.60 | 1328 | 923 |
| | 1 x 95 / 16 | 19*2.52 | 5.5 | 1.9 | 30.30 | 1590 | 1039 |
| | 1 x 120 / 16 | 37*2.03 | 5.5 | 2.0 | 32.00 | 1860 | 1164 |
| | 1 x 150 / 16 | 37*2.27 | 5.5 | 2.0 | 33.50 | 2160 | 1290 |
| | 1 x 185 / 25 | 37*2.52 | 5.5 | 2.1 | 35.50 | 2596 | 1523 |
| | 1 x 240 / 25 | 61*2.24 | 5.5 | 2.2 | 38.10 | 3155 | 1757 |
| | 1 x 300 / 25 | 61*2.5 | 5.5 | 2.3 | 40.50 | 3737 | 1997 |
| | 1 x 400 / 35 | 61*2.89 | 5.5 | 2.4 | 43.90 | 4792 | 2465 |
| | 1 x 500 / 35 | 61*3.23 | 5.5 | 2.5 | 47.0 | 5741 | 2834 |
| | 1 x 600 / 50 | 91*2.97 | 5.5 | 2.6 | 50.50 | 7092 | 3427 |
| | 1 x 800 / 50 | 91*3.35 | 5.5 | 2.7 | 54.60 | 8685 | 4021 |

UNARMOURED XLPE MV POWER CABLES U0/U(Um)=12/20(24)KV

Single Core N2XSY / NA2XSY
Three Core N2XSEY / NA2XSEY

Standards: IEC 60502-2, ISIRI 3569-2

Construction:

CU or AL/SCT/SC/XLPE/SC/SCT/CWS/PET/PVC

Stranded & Compacted Copper or Aluminium Conductor

Conductor Screen of Semi-Conductive Compound

XLPE Insulation

Insulation Screen of Semi-Conductive Compound

Semi-Conductive Bedding Tape

Copper Wire Screen

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)



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<http://mashadcable.ir>

Wire Armoured XLPE MV Power Cable

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Dia Wire Armoured mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Apprro CU Kg/Km | Total Weight Apprro AL Kg/Km |
|-------------------------------|-----------------------|-------------------------|----------------------|----------------------|---------------------|--------------------------|------------------------------|------------------------------|
| Single Core | | | | | | | | |
| 1 x 35 / 16 | 7*2.56 | 5.5 | 1.0 | 1.6 | 1.9 | 31 | 1399 | 1193 |
| 1 x 50 / 16 | 19*1.82 | 5.5 | 1.0 | 2.0 | 2.0 | 34 | 1683 | 1395 |
| 1 x 70 / 16 | 19*2.16 | 5.5 | 1.0 | 2.0 | 2.1 | 35 | 1943 | 1538 |
| 1 x 95 / 16 | 19*2.52 | 5.5 | 1.2 | 2.0 | 2.1 | 37 | 2277 | 1726 |
| 1 x 120 / 16 | 37*2.03 | 5.5 | 1.2 | 2.0 | 2.2 | 39 | 2588 | 1890 |
| 1 x 150 / 16 | 37*2.27 | 5.5 | 1.2 | 2.0 | 2.3 | 41 | 2935 | 2064 |
| 1 x 185 / 25 | 37*2.52 | 5.5 | 1.2 | 2.0 | 2.3 | 43 | 3395 | 2322 |
| 1 x 240 / 25 | 61*2.24 | 5.5 | 1.2 | 2.5 | 2.4 | 46 | 4150 | 2752 |
| 1 x 300 / 25 | 61*2.5 | 5.5 | 1.4 | 2.5 | 2.5 | 49 | 4853 | 3111 |
| 1 x 400 / 35 | 61*2.89 | 5.5 | 1.4 | 2.5 | 2.6 | 53 | 6000 | 3666 |
| 1 x 500 / 35 | 61*3.23 | 5.5 | 1.4 | 2.5 | 2.7 | 56 | 7010 | 4105 |
| 1 x 630 / 50 | 91*2.97 | 5.5 | 1.6 | 2.5 | 2.9 | 60 | 8548 | 1883 |
| 1 x 800 / 50 | 91*3.35 | 5.5 | 1.6 | 2.5 | 3.0 | 64 | 10251 | 5588 |
| Three Core | | | | | | | | |
| 12/20/24kV | 7*2.56 | 5.5 | 1.6 | 2.5 | 3.0 | 63 | 4442 | 3818 |
| 3 x 50 / 16 | 19*1.82 | 5.5 | 1.6 | 2.5 | 3.1 | 66 | 5037 | 4167 |
| 3 x 70 / 16 | 19*2.16 | 5.5 | 1.6 | 2.5 | 3.2 | 70 | 5820 | 4594 |
| 3 x 95 / 16 | 19*2.52 | 5.5 | 1.6 | 3.15 | 3.4 | 75 | 7109 | 5440 |
| 3 x 120 / 16 | 37*2.03 | 5.5 | 1.8 | 3.15 | 3.5 | 79 | 8100 | 5991 |
| 3 x 150 / 16 | 37*2.27 | 5.5 | 1.8 | 3.15 | 3.6 | 83 | 9176 | 6538 |
| 3 x 185 / 25 | 37*2.52 | 5.5 | 1.8 | 3.15 | 3.8 | 87 | 10679 | 7428 |
| 3 x 240 / 25 | 61*2.24 | 5.5 | 1.8 | 3.15 | 4.0 | 93 | 12580 | 8345 |
| 3 x 300 / 25 | 61*2.5 | 5.5 | 1.8 | 3.15 | 4.1 | 98 | 14506 | 9231 |
| 3 x 400 / 35 | 61*2.89 | 5.5 | 2.0 | 3.15 | 4.4 | 106 | 18137 | 11087 |
| 3 x 35 / 16 | 7*2.56 | 5.5 | 1.6 | 2.5 | 3.0 | 63 | 6178 | 5555 |
| 3 x 50 / 16 | 19*1.82 | 5.5 | 1.6 | 2.5 | 3.1 | 66 | 6875 | 6005 |
| 3 x 70 / 16 | 19*2.16 | 5.5 | 1.6 | 2.5 | 3.2 | 70 | 7760 | 6534 |
| 3 x 95 / 16 | 19*2.52 | 5.5 | 1.6 | 3.15 | 3.4 | 75 | 9744 | 8075 |
| 3 x 120 / 16 | 37*2.03 | 5.5 | 1.8 | 3.15 | 3.5 | 79 | 10858 | 8748 |
| 3 x 150 / 16 | 37*2.27 | 5.5 | 1.8 | 3.15 | 3.6 | 83 | 12095 | 9456 |
| 3 x 185 / 25 | 37*2.52 | 5.5 | 1.8 | 3.15 | 3.8 | 87 | 13760 | 10508 |
| 3 x 240 / 25 | 61*2.24 | 5.5 | 1.8 | 3.15 | 4.0 | 93 | 15864 | 11628 |
| 3 x 300 / 25 | 61*2.5 | 5.5 | 1.8 | 3.15 | 4.1 | 98 | 17993 | 12717 |
| 3 x 400 / 35 | 61*2.89 | 5.5 | 2.0 | 3.15 | 4.4 | 106 | 21907 | 14857 |

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WIRE ARMoured XLPE MV POWER CABLES U0/U
(Um)=12/20(24)KV

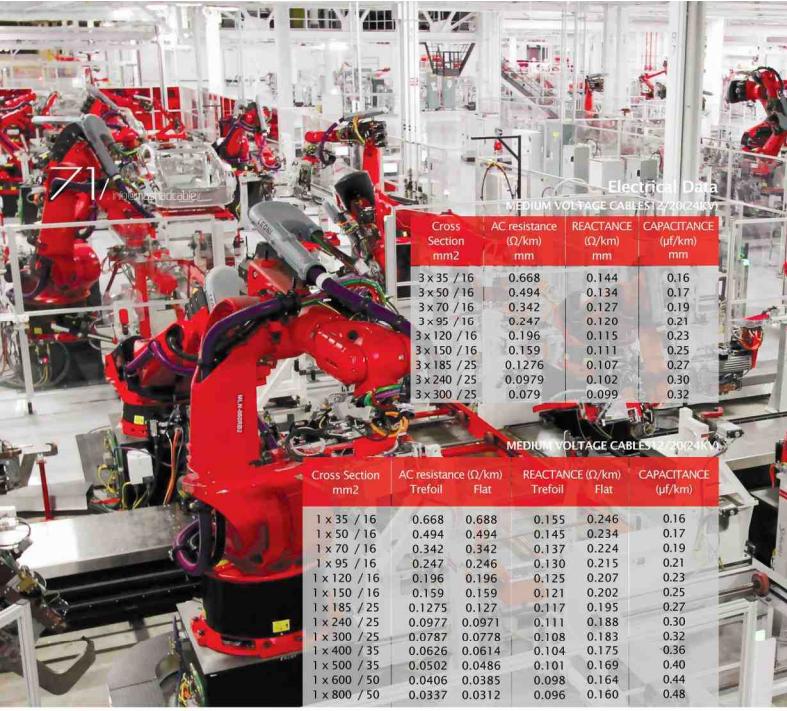
Aluminium : Wire Armoured Single Core N2XSYRY/ NA2XSYRY
Steel : Wire Armoured Three Core N2XSEYY/ NA2XSEYY

Standards : IEC 60502-2, ISIRI 3569-2

Construction: CU or AL/SCT/SC/XLPE/SC/SCT/CWS/
PVC(Bd)/AWA or SWA/PVC

Stranded & Compacted Copper or Aluminium Conductor
Conductor Screen of Semi-Conductive Compound
XLPE Insulation
Insulation Screen of Semi-Conductive Compound
Semi-Conductive Bedding Tape
Copper Wire Screen
PVC Bedding
Wire Armour
PVC outer sheath (HDPE, Halogen free and low smoke, Chemical
resistant, Low smoke PVC, Anti rodent PVC outer sheath)





Electrical Data MEDIUM VOLTAGE CABLES 12/20(24)KV

| Cross Section mm ² | AC resistance (Ω/km) mm | REACTANCE (Ω/km) mm | CAPACITANCE (μF/km) mm |
|-------------------------------|-------------------------|---------------------|------------------------|
| 3 x 35 / 16 | 0.668 | 0.144 | 0.16 |
| 3 x 50 / 16 | 0.494 | 0.134 | 0.17 |
| 3 x 70 / 16 | 0.342 | 0.127 | 0.19 |
| 3 x 95 / 16 | 0.247 | 0.120 | 0.21 |
| 3 x 120 / 16 | 0.196 | 0.115 | 0.23 |
| 3 x 150 / 16 | 0.159 | 0.111 | 0.25 |
| 3 x 185 / 25 | 0.1276 | 0.107 | 0.27 |
| 3 x 240 / 25 | 0.0979 | 0.102 | 0.30 |
| 3 x 300 / 25 | 0.079 | 0.099 | 0.32 |

MEDIUM VOLTAGE CABLES 12/20(24)KV

| Cross Section mm ² | AC resistance (Ω/km) Tinfoil Flat | REACTANCE (Ω/km) Tinfoil Flat | CAPACITANCE (μF/km) |
|-------------------------------|--------------------------------------|----------------------------------|---------------------|
| 1 x 35 / 16 | 0.668 | 0.688 | 0.16 |
| 1 x 50 / 16 | 0.494 | 0.494 | 0.145 |
| 1 x 70 / 16 | 0.342 | 0.342 | 0.234 |
| 1 x 95 / 16 | 0.247 | 0.246 | 0.310 |
| 1 x 120 / 16 | 0.196 | 0.196 | 0.215 |
| 1 x 150 / 16 | 0.159 | 0.159 | 0.121 |
| 1 x 185 / 25 | 0.1275 | 0.127 | 0.117 |
| 1 x 240 / 25 | 0.0977 | 0.0971 | 0.111 |
| 1 x 300 / 25 | 0.0787 | 0.0778 | 0.108 |
| 1 x 400 / 35 | 0.0626 | 0.0614 | 0.104 |
| 1 x 500 / 35 | 0.0502 | 0.0486 | 0.101 |
| 1 x 600 / 50 | 0.0406 | 0.0385 | 0.098 |
| 1 x 800 / 50 | 0.0337 | 0.0312 | 0.096 |
| | | | 0.160 |
| | | | 0.48 |

Tape Armoured XLPE MV Power Cable

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Thickness tape Armour mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU Kg/Km | AL Kg/Km |
|-------------------------------|-----------------------|-------------------------|----------------------|--------------------------|---------------------|--------------------------|-----------------------------|----------|
| 1 x 35 / 16 | 7 ² .56 | 5.5 | 1.0 | 0.2 | 1.9 | 29 | 1163 | 957 |
| 1 x 50 / 16 | 19 ¹ .82 | 5.5 | 1.0 | 0.2 | 1.9 | 31 | 1332 | 1045 |
| 1 x 70 / 16 | 19 ² .16 | 5.5 | 1.2 | 0.2 | 2.0 | 33 | 1611 | 1206 |
| 1 x 95 / 16 | 19 ² .52 | 5.5 | 1.2 | 0.2 | 2.1 | 35 | 1904 | 1353 |
| 1 x 120 / 16 | 37 ² .03 | 5.5 | 1.2 | 0.5 | 2.1 | 37 | 2282 | 1586 |
| 1 x 150 / 16 | 37 ² .27 | 5.5 | 1.2 | 0.5 | 2.2 | 39 | 2620 | 1748 |
| 1 x 185 / 25 | 37 ² .52 | 5.5 | 1.2 | 0.5 | 2.3 | 41 | 3085 | 2012 |
| 1 x 300 / 25 | 61 ² .24 | 5.5 | 1.2 | 0.5 | 2.3 | 43 | 3656 | 2258 |
| 1 x 400 / 35 | 61 ² .89 | 5.5 | 1.4 | 0.5 | 2.4 | 46 | 4319 | 2577 |
| 1 x 500 / 35 | 61 ³ .23 | 5.5 | 1.4 | 0.5 | 2.6 | 50 | 5441 | 3114 |
| 1 x 630 / 50 | 91 ² .97 | 5.5 | 1.6 | 0.5 | 2.8 | 57 | 7894 | 4228 |
| 1 x 800 / 50 | 91 ³ .35 | 5.5 | 1.6 | 0.5 | 2.9 | 61 | 9548 | 4884 |
| 3 x 35 / 16 | 7 ² .56 | 5.5 | 1.6 | 0.5 | 2.9 | 60 | 3723 | 3099 |
| 3 x 50 / 16 | 19 ¹ .82 | 5.5 | 1.6 | 0.5 | 3.0 | 63 | 4276 | 3405 |
| 3 x 70 / 16 | 19 ² .16 | 5.5 | 1.6 | 0.5 | 3.1 | 66 | 5020 | 3793 |
| 3 x 95 / 16 | 19 ² .52 | 5.5 | 1.8 | 0.5 | 3.2 | 70 | 5904 | 4234 |
| 3 x 120 / 16 | 37 ² .03 | 5.5 | 1.8 | 0.5 | 3.3 | 74 | 6845 | 4735 |
| 3 x 150 / 16 | 37 ² .27 | 5.5 | 1.8 | 0.5 | 3.5 | 77 | 7881 | 5243 |
| 3 x 185 / 25 | 37 ² .52 | 5.5 | 1.8 | 0.8 | 3.6 | 83 | 9525 | 6274 |
| 3 x 300 / 25 | 61 ² .24 | 5.5 | 1.8 | 0.8 | 3.8 | 88 | 11354 | 7120 |
| 3 x 400 / 35 | 61 ² .89 | 5.5 | 2.0 | 0.8 | 4.2 | 102 | 16737 | 9687 |
| 3 x 35 / 16 | 7 ² .56 | 5.5 | 1.6 | 0.5 | 2.9 | 60 | 4243 | 3620 |
| 3 x 50 / 16 | 19 ¹ .82 | 5.5 | 1.6 | 0.5 | 3.0 | 63 | 4824 | 3954 |
| 3 x 70 / 16 | 19 ² .16 | 5.5 | 1.6 | 0.5 | 3.1 | 66 | 5603 | 4377 |
| 3 x 95 / 16 | 19 ² .52 | 5.5 | 1.8 | 0.5 | 3.2 | 70 | 6522 | 4853 |
| 3 x 120 / 16 | 37 ² .03 | 5.5 | 1.8 | 0.5 | 3.3 | 74 | 7502 | 5392 |
| 3 x 185 / 25 | 37 ² .52 | 5.5 | 1.8 | 0.5 | 3.5 | 77 | 8570 | 5931 |
| 3 x 240 / 25 | 61 ² .24 | 5.5 | 1.8 | 0.8 | 3.6 | 83 | 10699 | 7447 |
| 3 x 300 / 25 | 61 ² .89 | 5.5 | 1.8 | 0.8 | 3.8 | 88 | 12608 | 8373 |
| 3 x 400 / 35 | 61 ² .89 | 5.5 | 2.0 | 0.8 | 4.0 | 94 | 14581 | 9305 |
| | | | | | | 102 | 18185 | 11136 |





| | Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU Kg/km | AL Kg/km |
|---|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|-----------------------------|----------|
| 18/30(36KV) Three Core Cu&Al/Sc/Al/He/SC/XLPE/PVC | | | | | | | |
| | 3 x 50 / 16 | 19*1.82 | 8 | 3.2 | 69 | 4225 | 3354 |
| | 3 x 70 / 16 | 19*2.16 | 8 | 3.3 | 73 | 4961 | 3734 |
| | 3 x 95 / 16 | 19*2.52 | 8 | 3.4 | 76 | 5837 | 4167 |
| | 3 x 120 / 16 | 37*2.03 | 8 | 3.5 | 80 | 6691 | 4581 |
| | 3 x 150 / 16 | 37*2.27 | 8 | 3.7 | 84 | 7720 | 5081 |
| | 3 x 185 / 25 | 37*2.52 | 8 | 3.8 | 88 | 9092 | 5840 |
| | 3 x 240 / 25 | 61*2.24 | 8 | 4.0 | 94 | 10887 | 6652 |
| | 3 x 300 / 25 | 61*2.5 | 8 | 4.2 | 99 | 12752 | 7476 |
| | 3 x 400 / 35 | 61*2.89 | 8 | 4.4 | 106 | 16085 | 9035 |
| 18/30(36KV) Single Core Cu&Al/Sc/Al/He/SC/XLPE/PVC | | | | | | | |
| | 1 x 50 / 16 | 19*1.82 | 8 | 2.0 | 32 | 1354 | 1066 |
| | 1 x 70 / 16 | 19*2.16 | 8 | 2.0 | 34 | 1583 | 1178 |
| | 1 x 95 / 16 | 19*2.52 | 8 | 2.1 | 36 | 1875 | 1324 |
| | 1 x 120 / 16 | 37*2.03 | 8 | 2.2 | 38 | 2160 | 1463 |
| | 1 x 150 / 16 | 37*2.27 | 8 | 2.2 | 40 | 2472 | 1601 |
| | 1 x 185 / 25 | 37*2.52 | 8 | 2.3 | 41 | 2924 | 1851 |
| | 1 x 240 / 25 | 61*2.24 | 8 | 2.4 | 44 | 3505 | 2107 |
| | 1 x 300 / 25 | 61*2.5 | 8 | 2.4 | 46 | 4086 | 2345 |
| | 1 x 400 / 35 | 61*2.89 | 8 | 2.5 | 50 | 5168 | 2841 |
| | 1 x 500 / 35 | 61*3.23 | 8 | 2.6 | 53 | 6141 | 3235 |
| | 1 x 600 / 50 | 91*2.9/ | 8 | 2.8 | 56 | 7547 | 3881 |
| | 1 x 800 / 50 | 91*3.35 | 8 | 2.9 | 60 | 9173 | 4510 |

Unarmoured Power Cable

XLPE MV



UNARMOURED XLPE MV POWER CABLES U0/U(Um)=18/30(36)KV

Single Core : N2XY/ NA2XY

Three Core : N2XSEY/ NA2XSEY

Standards : IEC 60502-2, ISIRI 3569-2

Construction : CU or AL/SCT/SC/XLPE/SC/SCT/CWS/PET/PVC

Stranded & Compacted Copper or Aluminium Conductor

Conductor Screen of Semi-Conductive Compound

XLPE Insulation

Insulation Screen of Semi-Conductive Compound

Semi-Conductive Bedding Tape

Copper Wire Screen

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Dia Wire Armoured mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU | AL Kg/km |
|-------------------------------|-----------------------|-------------------------|----------------------|----------------------|---------------------|--------------------------|-----------------------|----------|
| 18/2036KV Single Core | | | | | | | | |
| 1 x 50 / 16 | 19*1.82 | 8 | 1.2 | 2.0 | 2.2 | 39 | 2083 | 1795 |
| 1 x 70 / 16 | 19*2.16 | 8 | 1.2 | 2.0 | 2.3 | 41 | 2368 | 1964 |
| 1 x 95 / 16 | 19*2.52 | 8 | 1.2 | 2.0 | 2.3 | 43 | 2674 | 2123 |
| 1 x 120 / 16 | 37*2.03 | 8 | 1.2 | 2.5 | 2.4 | 45 | 3149 | 2453 |
| 1 x 150 / 16 | 37*2.27 | 8 | 1.2 | 2.5 | 2.5 | 47 | 3508 | 2636 |
| 1 x 185 / 25 | 37*2.52 | 8 | 1.4 | 2.5 | 2.5 | 50 | 4044 | 2971 |
| 1 x 240 / 25 | 61*2.24 | 8 | 1.4 | 2.5 | 2.6 | 51 | 4688 | 3291 |
| 1 x 300 / 25 | 61*2.5 | 8 | 1.4 | 2.5 | 2.7 | 54 | 5354 | 3613 |
| 1 x 400 / 35 | 61*2.89 | 8 | 1.4 | 2.5 | 2.8 | 58 | 6523 | 4196 |
| 1 x 500 / 35 | 61*3.23 | 8 | 1.6 | 2.5 | 2.9 | 61 | 7640 | 4734 |
| 1 x 630 / 50 | 91*2.97 | 8 | 1.6 | 2.5 | 3.0 | 65 | 9112 | 5447 |
| 1 x 800 / 50 | 91*3.35 | 8 | 1.6 | 2.5 | 3.2 | 69 | 10879 | 6215 |
| 18/3036KV Three Core | | | | | | | | |
| 3 x 50 / 16 | 19*1.82 | 8 | 1.8 | 3.15 | 3.5 | 80 | 6594 | 5722 |
| 3 x 70 / 16 | 19*2.16 | 8 | 1.8 | 3.15 | 3.6 | 83 | 7436 | 6210 |
| 3 x 95 / 16 | 19*2.52 | 8 | 1.8 | 3.15 | 3.8 | 87 | 8484 | 6814 |
| 3 x 120 / 16 | 37*2.03 | 8 | 1.8 | 3.15 | 3.9 | 91 | 9445 | 7335 |
| 3 x 150 / 16 | 37*2.27 | 8 | 1.8 | 3.15 | 4.0 | 94 | 10565 | 7927 |
| 3 x 185 / 25 | 37*2.52 | 8 | 2.0 | 3.15 | 4.2 | 100 | 12222 | 8971 |
| 3 x 240 / 25 | 61*2.24 | 8 | 2.0 | 3.15 | 4.4 | 104 | 14201 | 9966 |
| 3 x 300 / 25 | 61*2.5 | 8 | 2.0 | 3.15 | 4.5 | 110 | 16194 | 10918 |
| 3 x 400 / 35 | 61*2.89 | 8 | 2.0 | 3.15 | 4.8 | 117 | 19826 | 12776 |
| 18/3036KV Three Core | | | | | | | | |
| 3 x 50 / 16 | 19*1.82 | 8 | 1.8 | 3.15 | 3.5 | 80 | 9390 | 8520 |
| 3 x 70 / 16 | 19*2.16 | 8 | 1.8 | 3.15 | 3.6 | 83 | 10355 | 9129 |
| 3 x 95 / 16 | 19*2.52 | 8 | 1.8 | 3.15 | 3.8 | 87 | 11565 | 9895 |
| 3 x 120 / 16 | 37*2.03 | 8 | 1.8 | 3.15 | 3.9 | 91 | 12647 | 10538 |
| 3 x 150 / 16 | 37*2.27 | 8 | 1.8 | 3.15 | 4.0 | 94 | 13930 | 11293 |
| 3 x 185 / 25 | 37*2.52 | 8 | 2.0 | 3.15 | 4.2 | 100 | 15750 | 12499 |
| 3 x 240 / 25 | 61*2.24 | 8 | 2.0 | 3.15 | 4.4 | 104 | 17930 | 13695 |
| 3 x 300 / 25 | 61*2.5 | 8 | 2.0 | 3.15 | 4.5 | 110 | 20126 | 14851 |
| 3 x 400 / 35 | 61*2.89 | 8 | 2.0 | 3.15 | 4.8 | 117 | 24042 | 16993 |

WIRE ARMOURED XLPE MV POWER CABLES

U0/U(Um)=18/30(36)KV

Aluminium Wire Armoured Single Core N2XSYRY / NA2XSYRY
 Steel Wire Armoured Three Core N2XSEYRY / NA2XSEYRY
 Standards: IEC 60502-2, ISIRI 3569-2

Construction: **CU or AL/SCT/SC/XLPE/SC/SCT/CWS/PVC(Bd)/AWA or SWA/PVC**

Stranded & Compacted Copper or Aluminium Conductor
 Conductor Screen of Semi-Conductive Compound

XLPE Insulation

Insulation Screen of Semi-Conductive Compound

Semi-Conductive Bedding Tape

Copper Wire Screen

PVC Bedding

Wire Armour

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)



Wire
Armoured
XLPE
MV
Power
Cable





TAPE ARMoured XLPE MV POWER CABLES U0/U(Um)=18/30(36)KV

Aluminium: Tape Armoured SingleCore N2XSYB/ NA2XSYB
Steel: Tape Armoured ThreeCore N2XSEYB/NA2XSEYB

Standards: IEC 60502-2, ISIRI 3569-2

Construction:
CU or AL/SCT/SC/XLPE/SC/SCT/CWS/PVC (Bd)/ATA or STA/PVC

Stranded & Compacted Copper or Aluminium Conductor
Conductor Screen of Semi-Conductive Compound
XLPE insulation

Insulation Screen of Semi-Conductive Compound
Semi-Conductive Bedding Tape
Copper Wire Screen
PVC Bedding
Double Tape Armour

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)

Unarmoured XLPE HV Power Cable

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro Kg/km | CU AL |
|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|--------------------------|-------|
| 1 x 95 / 50 | 19*2.52 | 10.5 | 2.3 | 41 | 2505 | 1654 |
| 1 x 120 / 50 | 37*2.03 | 10.5 | 2.3 | 43 | 2785 | 2089 |
| 1 x 150 / 50 | 37*2.27 | 10.5 | 2.4 | 44 | 3130 | 2260 |
| 1 x 185 / 50 | 37*2.52 | 10.5 | 2.4 | 46 | 3577 | 2504 |
| 1 x 240 / 50 | 61*2.24 | 10.5 | 2.5 | 49 | 4177 | 2779 |
| 1 x 300 / 50 | 61*2.5 | 10.5 | 2.6 | 51 | 4800 | 3085 |
| 1 x 400 / 50 | 61*2.89 | 10.5 | 2.7 | 55 | 5910 | 3583 |
| 1 x 500 / 50 | 61*3.23 | 10.5 | 2.8 | 58 | 6908 | 4002 |
| 1 x 600 / 50 | 91*2.97 | 10.5 | 2.9 | 61 | 8318 | 4653 |
| 1 x 800 / 50 | 91*3.35 | 10.5 | 3.1 | 66 | 10006 | 5342 |

38/66/72KV Single Core

Cu/Al/Al/S/C/SC/SC/SC/PVC



UNARMOURED XLPE HV POWER CABLES U0/ U(Um)=36/63(72)KV

Single Core: N2XSY / NA2XSY
Standards: IEC 60840

Construction:
CU or AL/SC/LPE/SC/SCT/CWS/PVC
Stranded & Compacted Copper or Aluminium
Conductor
Inner Semi-Conductive Compound
XLPE Insulation
Outer Semi-Conductive Compound
Semi-Conductive tape
Copper Wire Screen
PVC outer sheath (HDPE, Halogen free and
low smoke, Chemical resistant, Low
smoke PVC, Anti rodent PVC outer sheath)

Wire Armoured XLPE HV Power Cable

Single Core
Cable 38(66)72kV
Cu/Al/Al/Cu/PE/SC/SC/SC/PE/Al/PE/PVC

| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Dia Wire Armoured mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU Kg/km | AL Kg/km |
|-------------------------------|-----------------------|-------------------------|----------------------|----------------------|---------------------|--------------------------|-----------------------------|----------|
| 1 x 95 / 50 | 19*2.52 | 10.5 | 1.4 | 2.5 | 2.5 | 50 | 3625 | 3075 |
| 1 x 120 / 50 | 37*2.03 | 10.5 | 1.4 | 2.5 | 2.6 | 51 | 3968 | 3272 |
| 1 x 150 / 50 | 37*2.27 | 10.5 | 1.4 | 2.5 | 2.7 | 53 | 4358 | 3487 |
| 1 x 185 / 50 | 37*2.52 | 10.5 | 1.4 | 2.5 | 2.7 | 55 | 4862 | 3789 |
| 1 x 240 / 50 | 61*2.24 | 10.5 | 1.4 | 2.5 | 2.8 | 57 | 5528 | 4131 |
| 1 x 300 / 50 | 61*2.5 | 10.5 | 1.6 | 2.5 | 2.9 | 60 | 6273 | 4532 |
| 1 x 400 / 50 | 61*2.89 | 10.5 | 1.6 | 2.5 | 3.0 | 64 | 7475 | 5148 |
| 1 x 500 / 50 | 61*3.23 | 10.5 | 1.6 | 2.5 | 3.1 | 66 | 8547 | 5941 |
| 1 x 630 / 50 | 91*2.97 | 10.5 | 1.6 | 2.5 | 3.2 | 70 | 10062 | 6397 |
| 1 x 800 / 50 | 91*3.35 | 10.5 | 1.6 | 3.15 | 3.4 | 76 | 12172 | 7508 |

WIRE ARMORED XLPE HV POWER CABLES U0/U(Um)=36/63(72)kV

Single Core N2XSYRY/NA2XSYRY
Standards: IEC 60840

Construction:

CU or AL/SC/XLPE/SC/SCT/CWS/PVC (Bo)/AWA/PVC

Stranded & Compacted Copper or Aluminium Conductor

Inner Semi-Conductive Compound

XLPE Insulation

Outer Semi-Conductive Compound

Semi-Conductive tape

Copper Wire Screen

PVC Bedding

AL Wire Armour

PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)



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Electrical Data

HIGHVOLTAGE CABLES 38/66(72)KV

| Cross Section mm ² | AC resistance (Ω/km) | REACTANCE (Ω/km) | CAPACITANCE (μF/km) |
|-------------------------------|----------------------|------------------|---------------------|
| | Trefoil | Flat | Trefoil |
| 1 x 95 / 50 | 0.247 | 0.246 | 0.151 |
| 1 x 120 / 50 | 0.196 | 0.196 | 0.144 |
| 1 x 150 / 50 | 0.159 | 0.159 | 0.140 |
| 1 x 185 / 50 | 0.1273 | 0.1270 | 0.135 |
| 1 x 240 / 50 | 0.0974 | 0.0970 | 0.128 |
| 1 x 300 / 50 | 0.0783 | 0.0778 | 0.125 |
| 1 x 400 / 50 | 0.0621 | 0.0614 | 0.119 |
| 1 x 500 / 50 | 0.0496 | 0.0485 | 0.114 |
| 1 x 600 / 50 | 0.0398 | 0.0385 | 0.111 |
| 1 x 800 / 50 | 0.0328 | 0.0312 | 0.107 |

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| Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Bedding Thickness mm | Dia Wire Armoured mm | Sheath Thickness mm | Cable Diameter Approx mm | Total Weight Appro CU kg/km | AL kg/km |
|-------------------------------|-----------------------|-------------------------|----------------------|----------------------|---------------------|--------------------------|-----------------------------|----------|
| 1 x 95 / 50 | 19*2.52 | 10.5 | 1.4 | 0.5 | 2.5 | 47 | 3110 | 2560 |
| 1 x 120 / 50 | 37*2.03 | 10.5 | 1.4 | 0.5 | 2.5 | 48 | 3410 | 2713 |
| 1 x 150 / 50 | 37*2.27 | 10.5 | 1.4 | 0.5 | 2.6 | 50 | 3778 | 2908 |
| 1 x 185 / 50 | 37*2.52 | 10.5 | 1.4 | 0.5 | 2.6 | 52 | 4257 | 3184 |
| 1 x 240 / 50 | 61*2.24 | 10.5 | 1.4 | 0.5 | 2.7 | 54 | 4893 | 3495 |
| 1 x 300 / 50 | 61*2.5 | 10.5 | 1.6 | 0.5 | 2.8 | 57 | 5608 | 3867 |
| 1 x 400 / 50 | 61*2.89 | 10.5 | 1.6 | 0.5 | 2.9 | 61 | 6770 | 4443 |
| 1 x 500 / 50 | 61*3.23 | 10.5 | 1.6 | 0.5 | 3.0 | 64 | 7814 | 4908 |
| 1 x 630 / 50 | 91*2.97 | 10.5 | 1.6 | 0.5 | 3.1 | 67 | 9278 | 5613 |
| 1 x 800 / 50 | 91*3.35 | 10.5 | 1.8 | 0.5 | 3.3 | 72 | 11108 | 6444 |

Tape Armoured Power Cable

XLPE HV

TAPE ARMORED XLPE HV POWER CABLES U0/U(Um)=36/63(72)KV

Single Core N2XSYB/ NA2XSYB
Standards: IEC 60840

Construction:
CU or AL/SC/LPE/SC/SCT/CWS/PVC (Bd)/ATA/PVC

Stranded & Compacted Copper or Aluminium
Conductor Inner Semi-Conductive Compound
XLPE Insulation
Outer Semi-Conductive Compound
Semi-Conductive tape
Copper Wire Screen
PVC Bedding
AL Tape Armour
PVC outer sheath (HDPE, Halogen free and low smoke, Chemical resistant, Low smoke PVC, Anti rodent PVC outer sheath)

ABC MV 12/20
Cable

Conductor

| Name | Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Phase Diameter Approx mm | Cable Diameter Approx mm | Phase Weight Approx Kg/Km | Cable Weight Approx Kg/Km |
|-----------|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| MV-ABC35 | 3 x 35 | 7 x 2.58 | 5.5 | 1.8 | 6.90 | 65 | 0.665 | 2.015 |
| MV-ABC70 | 3 x 70 | 19 x 2.20 | 5.5 | 1.9 | 10.00 | 72 | 0.835 | 2.530 |
| MV-ABC120 | 3 x 120 | 37 x 2.10 | 5.5 | 2.0 | 13.20 | 77 | 1.065 | 3.227 |
| MV-ABC150 | 3 x 150 | 37 x 2.32 | 5.5 | 2.2 | 14.80 | 83 | 1.257 | 3.810 |

Messenger Wire

| Name | Construction | Cross Section | Diameter Approx | Weight Approx |
|-------------|--------------|---------------|-----------------|---------------|
| Lynx Core | 7x2.79 | 43 | 8.37 | 339 |
| Canary Core | 7x3.28 | 60 | 9.84 | 468 |
| Martin Core | 19x2.0 | 87 | 12.05 | 689 |

ABC MV CABLES U0/U(Um)=12/20(24)KV

Three Core

Standards: IEC 60502-2, ISIRI 3569-2

Construction:

AL/SCT/SC/XLPE/SC/SCT/CWS/PET/PVC
 Stranded & Compacted Aluminum Conductor
 Conductor Screen of Semi-Conductive Compound
 XLPE Insulation
 Insulation Screen of Semi-Conductive Compound
 Semi-Conductive Bedding Tape
 Copper Wire Screen
 PVC outer sheath

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ABC MV Cable

Conductor

| Name | Cross Section mm ² | No x Dia Conductor mm | Insulation Thickness mm | Sheath Thickness mm | Phase Diameter Approx mm | Cable Diameter Approx mm | Phase Weight Approx Kg/Km | Cable Weight Approx Kg/Km |
|-----------|-------------------------------|-----------------------|-------------------------|---------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| MV-ABC35 | 3 x 35 | 7 x 2.58 | 8 | 2.0 | 33 | 78 | 0.866 | 2.67 |
| MV-ABC70 | 3 x 70 | 19 x 2.20 | 8 | 2.0 | 35 | 81 | 1.070 | 3.226 |
| MV-ABC120 | 3 x 120 | 37 x 2.10 | 8 | 2.1 | 38 | 84 | 1.322 | 3.985 |
| MV-ABC150 | 3 x 150 | 37 x 2.32 | 8 | 2.2 | 40 | 94 | 1.540 | 4.643 |

Messenger Wire

| Name | Construction | Cross Section | Diameter Approx | Weight Approx |
|-------------|--------------|---------------|-----------------|---------------|
| Lynx Core | 7x2.79 | 43 | 8.37 | 339 |
| Canary Core | 7x3.28 | 60 | 9.84 | 468 |
| Martin Core | 19x2.0 | 87 | 12.05 | 689 |



ABC MV CABLES U0/U(Um)=18/30(36)KV
Three Core

Standards: IEC 60502-2, ISIRI 3569-2

Construction:

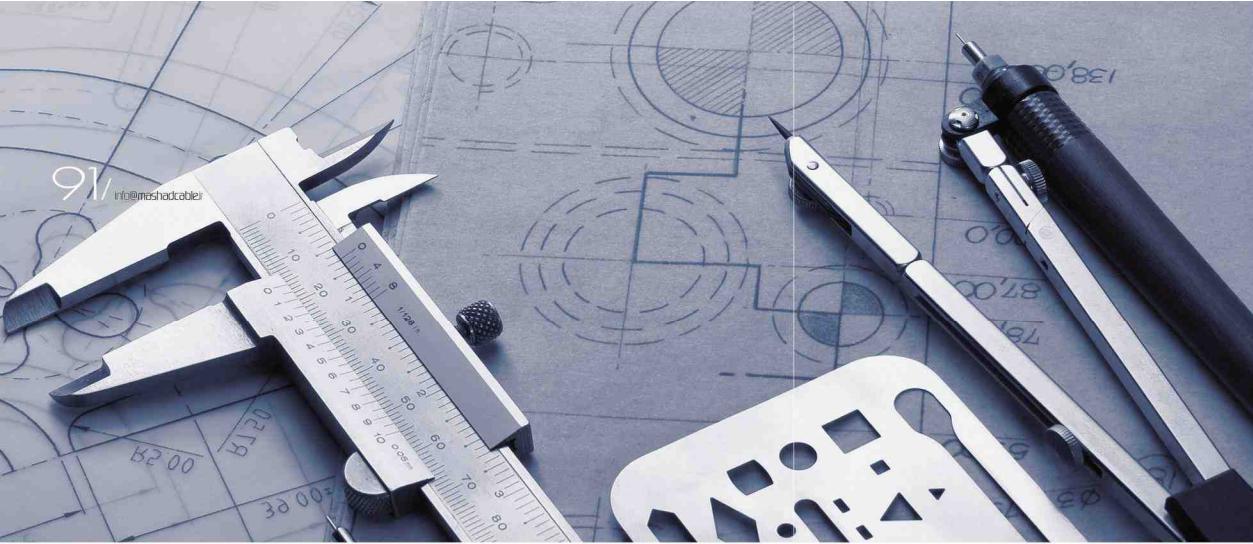
AL/SCT/SC/XLPE/SC/SCT/CWS/PET/PVC
Stranded & Compacted Aluminium Conductor
Conductor Screen of Semi-Conductive Compound
XLPE Insulation

Insulation Screen of Semi-Conductive Compound
Semi-Conductive Bedding Tape
Copper Wire Screen
PVC outer sheath

CEO
Management Board
& Staff Team in
Mashad
wire and
cable Group



Mashad wire & cable Co.
www.mashadcable.ir



Technical Data

VDE Abbreviations

N DIN VDE standard type
(N) With reference to DIN VDE standard
A=Aluminum 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-sectionwire,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
N Compacted conductor

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 + Aluminium 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 + Aluminium 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 Aluminium Tape Armour
STA=Double Galv. Steel Tape Armour
AWA=Aluminium Wire Armour
AWAT=Aluminium Wire Armour + Counter Herlix
SWA=Galv. Steel Wire Armour

A = cross section (mm^2)
 L = length (m)
 I = intensity of current (A)
 $\cos\theta$ = power factor
 X = conductivity ($\text{m}/\Omega\text{mm}^2$)
 U_L = Line voltage
 ΔU = voltage drop (up to max 0.05 is allowed)

سطح مقطع ناچی (میلیمتر مربع)
 مارل مارل (متر)
 شدت جریان (آمپر)
 ضریب قدرت
 قابلیت هایات
 ولتاژ خط
 درصد افت ولتاژ (حرکت تا ۵٪ میتواند منظور شود)

$$\text{For AC 3phase: } A = \frac{3 \cdot L \cdot I \cdot \cos \theta}{X \cdot U_L \cdot \Delta U}$$

$$\text{For AC 1phase: } A = \frac{2 \cdot L \cdot I \cdot \cos \theta}{X \cdot U_L \cdot \Delta U}$$

$$P=636 \text{ KW } U_L=380V \text{ } L=345\text{m } \cos\theta=0.8 \text{ } \Delta u=0.03-0.05 \text{ } X_{cu}=58$$

$$A=\sqrt{3} \cdot U_L \cdot \cos\theta / (X \cdot U_L)$$

$$I=P/\sqrt{3}U_L \cos\theta \Rightarrow 636*1000/(1.73*380*0.8) = 1209 \text{ A } I=1209 \text{ A}$$

$$\Delta u=0.05 \Rightarrow A=1.7 \cdot 345 \cdot 1209 \cdot 0.8 / (58 \cdot 380 \cdot 0.05) \Rightarrow A=523 \text{ mm}^2$$

$$\Delta u=0.03 \Rightarrow A=1.7 \cdot 345 \cdot 1209 \cdot 0.8 / (58 \cdot 380 \cdot 0.03) \Rightarrow A=873 \text{ mm}^2$$

$$\Delta u=0.05 \Rightarrow R=pL/A=17.241 \cdot 1/523 \cdot 0.0329 \Omega \text{ } (T=45^\circ\text{C})$$

$$\Delta u=0.03 \Rightarrow R=pL/A=17.241 \cdot 1/873 \cdot 0.0197 \Omega \text{ } (T=45^\circ\text{C})$$

$$\text{ضریب تمحیص دما} = 254.5/(234.5+T) \cdot 0.91$$

$$\Delta u=0.03 \Rightarrow R=pL/A=17.241 \cdot 1/873 \cdot 0.0197 \Omega \text{ } (T=45^\circ\text{C})$$

$$\text{ضریب تمحیص دما} = 254.5/(234.5+T) \cdot 0.91$$

$$\Delta u=0.05 \Rightarrow R=0.0329 \cdot 0.91-0.0299 \Rightarrow A \approx 630 \text{ mm}^2$$

$$\Delta u=0.03 \Rightarrow R=0.0197 \cdot 0.91-0.0179 \Rightarrow A \approx 1000 \text{ mm}^2$$

Given measured data and select the tables attached to the client that the voltage drop in the surface temperature and consider.

حال با توجه به مقادیر اندازه گردیده و مدارهای انتخاب شده، مشاهدی است که شرایط دمایی و افت ولتاژی را در چه سطوحی در نظر بگیرد.



Technical Data

Since capacity of current for certain cross section is limited, therefore, selecting the right cross section is always very important.

The permissible currents indicated in table 2 and 3 are only valid for short distance (below 45 meters approximately), when the distance is over 45 meter tables 2 and 3 are no longer valid and in this case it is necessary to make calculation easier.

از آنجایی که هر هادی با سطح مقطع معین می تواند مقدار جریان مجاز محدود را بعور دهد، تعیین سطح مقطع مناسب حالت اهمیت می اشاند. مقدار جریان مجاز مظهور شده در جداول پوست فقط مقادیر مسافت های کوتاه (حدوداً 50 متر) در نظر گرفته شده است. چنانچه مارل هایی داشته باشند، دیگر نیز توان افت ولتاژ را نایاب نگرفت و در تیجه جداول مربوط کاربری نخواهد داشت، بنابراین باید از فرمول های زیر استفاده نمود.

The maximum permissible current in cables
with XLPE insulation voltage 0.6/1 Kv

حداکثر جریان مجاز در کابل های با عایق XLPE با ولتاژ 0.6/1Kv

| Cross Section | In Air | | | | | In Earth | | | |
|-----------------|--------|--------|--------|----------|--------|----------|--------|----------|--|
| | 1 core | 1 core | 2 core | 3,4 core | 1 core | 1 core | 2 core | 3,4 core | |
| mm ² | Sector | Flat | | | Sector | Flat | | | |
| 16 | ---- | ---- | 118 | 101 | ---- | ---- | 141 | 119 | |
| 25 | ---- | ---- | 154 | 132 | ---- | ---- | 183 | 152 | |
| 35 | ---- | ---- | 190 | 162 | ---- | ---- | 219 | 182 | |
| 50 | 217 | 241 | 229 | 196 | 231 | 279 | 259 | 217 | |
| 70 | 277 | 295 | 288 | 247 | 284 | 350 | 317 | 266 | |
| 95 | 340 | 350 | 355 | 305 | 340 | 425 | 381 | 319 | |
| 120 | 386 | 395 | 411 | 353 | 393 | 488 | 433 | 363 | |
| 150 | 431 | 434 | 469 | 404 | 545 | 543 | 485 | 406 | |
| 185 | 485 | 482 | 541 | 458 | 522 | 610 | 547 | 465 | |
| 240 | 558 | 545 | 632 | 529 | 615 | 700 | 639 | 549 | |
| 300 | 623 | 597 | 708 | 592 | 700 | 775 | 728 | 526 | |
| 400 | 691 | 637 | 799 | 667 | 800 | 834 | 838 | 720 | |

CU

| Cross Section | In Air | | | | | In Earth | | | |
|-----------------|--------|--------|--------|----------|--------|----------|--------|----------|--|
| | 1 core | 1 core | 2 core | 3,4 core | 1 core | 1 core | 2 core | 3,4 core | |
| mm ² | Sector | Flat | | | Sector | Flat | | | |
| 16 | ---- | ---- | 90 | 76 | ---- | ---- | 108 | 91 | |
| 25 | ---- | ---- | 114 | 100 | ---- | ---- | 138 | 116 | |
| 35 | ---- | ---- | 141 | 122 | ---- | ---- | 165 | 139 | |
| 50 | 162 | 185 | 169 | 147 | 177 | 209 | 196 | 165 | |
| 70 | 208 | 227 | 213 | 186 | 218 | 264 | 240 | 203 | |
| 95 | 255 | 270 | 263 | 229 | 260 | 322 | 288 | 244 | |
| 120 | 295 | 306 | 306 | 266 | 296 | 370 | 370 | 278 | |
| 150 | 331 | 339 | 305 | 340 | 417 | ----- | 311 | ----- | |
| 185 | 374 | 380 | 352 | 392 | 473 | ----- | 353 | ----- | |
| 240 | 433 | 435 | 409 | 464 | 550 | ----- | 417 | ----- | |
| 300 | 486 | 483 | 461 | 532 | 619 | ----- | 478 | ----- | |

AL

The maximum permissible current in cables
with PVC insulation voltage 0.6/1 Kv

حداکثر جریان مجاز در کابل های با عایق PVC با ولتاژ 0.6/1Kv

CU

| Cross Section | In Air | | | | | In Earth | | | |
|-----------------|--------|--------|--------|----------|--------|----------|--------|----------|--|
| | 1 core | 1 core | 2 core | 3,4 core | 1 core | 1 core | 2 core | 3,4 core | |
| mm ² | Sector | Flat | | | Sector | Flat | | | |
| 16 | ---- | ---- | 94 | 80 | ---- | ---- | 117 | 100 | |
| 25 | ---- | ---- | 119 | 101 | ---- | ---- | 157 | 131 | |
| 35 | ---- | ---- | 148 | 126 | ---- | ---- | 189 | 158 | |
| 50 | 167 | 219 | 180 | 153 | 200 | 210 | 225 | 188 | |
| 70 | 216 | 281 | 232 | 196 | 246 | 258 | 276 | 231 | |
| 95 | 264 | 341 | 282 | 238 | 294 | 310 | 332 | 277 | |
| 120 | 303 | 396 | 328 | 276 | 335 | 354 | 379 | 316 | |
| 150 | 356 | 456 | 379 | 319 | 376 | 397 | 425 | 355 | |
| 185 | 409 | 521 | 434 | 364 | 424 | 451 | 480 | 401 | |
| 240 | 485 | 615 | 514 | 430 | 491 | 524 | 559 | 466 | |
| 300 | 553 | 594 | 593 | 497 | 561 | 709 | 631 | 525 | |
| 400 | 627 | 679 | 715 | 595 | 656 | 852 | 718 | 595 | |

AL

| Cross Section | In Air | | | | | In Earth | | | |
|-----------------|--------|--------|--------|----------|--------|----------|--------|----------|--|
| | 1 core | 1 core | 2 core | 3,4 core | 1 core | 1 core | 2 core | 3,4 core | |
| mm ² | Sector | Flat | | | Sector | Flat | | | |
| 16 | ---- | ---- | 73 | 61 | ---- | ---- | 89 | 76 | |
| 25 | ---- | ---- | 89 | 78 | ---- | ---- | 118 | 100 | |
| 35 | ---- | ---- | 111 | 96 | ---- | ---- | 142 | 120 | |
| 50 | 128 | 163 | 135 | 117 | 152 | 160 | 169 | 143 | |
| 70 | 165 | 210 | 173 | 150 | 187 | 197 | 209 | 176 | |
| 95 | 203 | 256 | 210 | 183 | 224 | 236 | 250 | 211 | |
| 120 | 237 | 298 | ----- | 212 | 256 | 269 | ----- | 241 | |
| 150 | 274 | 344 | ----- | 245 | 287 | 302 | ----- | 271 | |
| 185 | 316 | 394 | ----- | 280 | 325 | 343 | ----- | 307 | |
| 240 | 375 | 466 | ----- | 330 | 377 | 399 | ----- | 357 | |
| 300 | 426 | 453 | ----- | 381 | 435 | 538 | ----- | 404 | |
| 400 | 478 | 520 | ----- | 442 | 494 | 541 | ----- | 448 | |