SHAHIN

Wire & Cable

SHAHIN CABLE

LOW VOLTAGE CABLE

General catalogue 2011-2012

IN THE NAME OF GOD

Content

About Us

IN THE NAME OF GOD

Shahin wire and cable Co. (SWACC) was established in 1992 by benefiting for the experience of director specialized in electrical and telecommunication industry and modern local and foreign - made machinery .

The factory is based on a plot measuring 35000 sqm , with the superstructure measuring 11200 sqm .

Feeling the need for transformation , the high-ranking director of the company made extensive changes in the organization , regulations , methods and operation .

After the first phase of the factory was completed , both the production and quality of products were improved and the company obtained the quality management certificate of ISO 9001: 2000 and a number of other certificates from the appropriate authorities such a Iranian national institute of standard and industrial research , power research of local electricity companies and petrochemical companies and was found the top industries unit with respect to standard in the respective province .

In consideration of the high pace of advancment of electrical and telecommunication industrial , SWACC has made every effort to upgrade and improve the quality of its products by benefiting from the most experienced , expect , scientific personnel and having a complete competent complex of equipment and by benefiting from the latest industrial methods of the world . So satisfying the ever increasing demands of customers and being able to complete in the world market has always been our outmost desire .

Certificates

GLOBAL

Certificate of Registration

This Is To Certify That The

QUALITY MANAGEMENT SYSTEM

Of

Shahin Wire Cable Co.

Apt 2, No.17, Nezami Ganjavi St., Valiasr Ave., Tehran, NA, Iran

for

Production of Power Cables up to 3 KV, Control Cables, Instrument Cables, Aerial Bundled Cables, Coaxial Cables, Telecommunication Cables up to 25 pairs.

has been assessed and registered against the provisions of

ISO9001:2000

International Standard

With

Registration Number:	68565251351	EA Code:	17
Project Number:	24 6856-1-Q	Exclusions:	7.3
Assessment Date:	13 September 2009		
Current Certification Date:	25 September 2009		
Current Certification Expiry:	13 September 2012		
Certification Approval Date:	25 September 2009		
Certification Approved By:			

Registration is subject to the management system being continually maintained to the above standard under regular surveillance. Should surveillance not take place when required registration shall be removed.

Registration can be verified online at the Global website www.globalcertification.com When doing so please use the registration number only.

This certificate is the property of Global Certification Limited and must be returned upon request.

UKAS QUALITY MANAGEMENT

039

جمهوری اسلامی ایران
موسسه استاندارد و تحقیقات صنعتی ایران
اداره کل استاندارد و تحقیقات صنعتی استان سمنان

شماره: Sm/۱۱۵۰
تاریخ صدور: ۸۷/۷/۲۰
صدور اولیه

SLF10/1/87.1

گواهینامه تایید صلاحیت آزمایشگاه همکار

به استناد روش اجرائی " تایید صلاحیت آزمایشگاه های آزمون و کالیبراسیون " ، آزمایشگاه شرکت **سیم و کابل شاهین** برای انجام آزمون مشروحه زیر تایید می گردد.

موضوع	براساس استاندارد
۱- انواع سیم و کابل های با عایق پلی وینیل کلراید با ولتاژ اسمی تا و خود ۴۵۰/۷۵۰ ولت	سری استاندارد ۶۰۷
۲- کابلهای قدرت با عایق اکسترود شده	۱-۳۵۶۹

تذکر:

۱- مدت اعتبار این گواهینامه از تاریخ صدور یک سال می باشد.

۲- داشتن این تاییدیه رافع مسئولیت های حقوقی و جزایی دارنده آن نمی باشد.

۳- رعایت نداهنده همکاری با موسسه استاندارد و تحقیقات صنعتی ایران الزامی است.

آدرس آزمایشگاه: سرخه – کیلومتر ۷ جاده سمنان – آسیاب پنجم تلفن: ۰۲۳۲۳۲۳۶۷۹ نمابر: ۰۲۳۲۳۲۲۲۸۸۱

SHAHIN CABLE

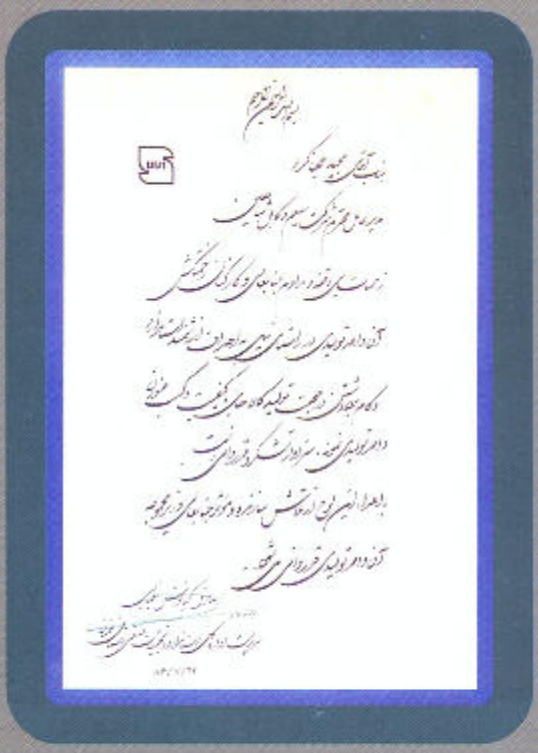
لوح تقدیر

به مناسبت گرامیداشت روز جهانی استاندارد

۱۴ اکتبر ۲۰۰۴ میلادی - مهرماه ۱۳۸۳

جناب آقای مجید جاگرد

مدیرعامل محترم شرکت سیم و کابل شاهین



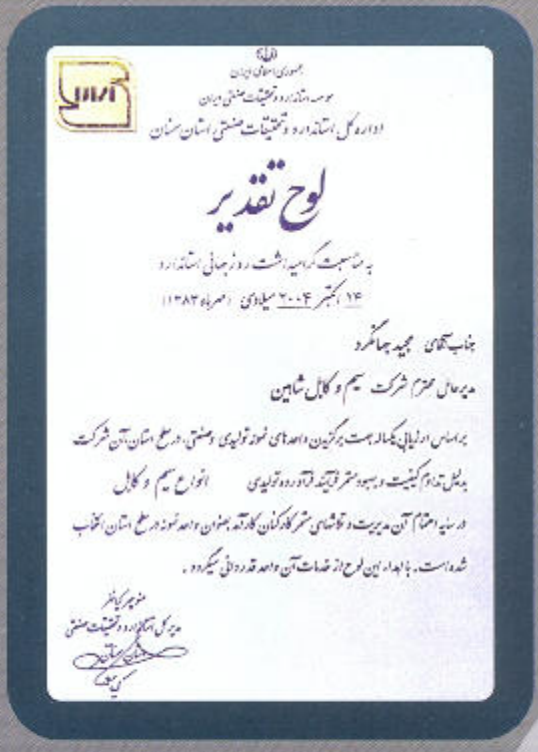
لوح تقدیر

به مناسبت گرامیداشت روز جهانی استاندارد

۱۴ اکتبر ۲۰۰۴ میلادی (مهرماه ۱۳۸۳)

جناب آقای مجید جاگرد

مدیرعامل محترم شرکت سیم و کابل شاهین



FLEXIBLE CABLES

Polyvinylchloride PVC insulation

300/300 V , 300/500 V , 450/750 V , 600/1000 V

CU/PVC [NYAF]
CU/PVC/PVC [NYLHY]
CU/PVC/PVC [NYMHY]
CU/PVC/PVC [NYSLY-O-J]
CU/PVC/PET/SCR [COPPER BRAID] / PVC [NYSLCY - O - J]
CU/PVC/PVC/SCR [COPPER BRAID] / PVC [NYSLYCY - O - J]
CU/PVC/PVC [FLAT CABLES] - [NYFLY]
CU/PVC/PVC [FLEXIBLE NYY]

SHAHIN CABLE

PVC INSULATED NON SHEATED SINGLE CORE WIRE

NYAF, H05V-K, H07V-K / 300/500 V, 450/750 V

Application : These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for voltages up to 1000 VAC or up to 750 VDC to earth when used for fixed installation indoor applications.

Specification : IEC 60227-3 , BS-6004 , VDE-0250 , ISIRI(607)02

Construction :

1) Conductor : Plain annealed flexible copper stranded as per class 5 of IEC 60228,VDE 0295,ISIRI 3084
2) Insulation : Polyvinyl chloride- PVC

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V up to 1.0 mm^2 , 450/750 V for 1.5 mm^2 and above
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 1500 VAC for 300/500 V , 2500 VAC for 450/750 V for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Approx. Overall diameter	Approx. weight	Max. d.c. resistance
mm^2	N x d_{mm}	mm	mm	Kg/km	Ω/km
0.5	16x0.2	0.6	2.2	9.0	39
0.75	24x0.2	0.6	2.4	12	26
1.0	32x0.2	0.6	2.6	15	19.5
1.5	30x0.25	0.7	3.0	21	13.3
2.5	50x0.25	0.8	3.6	33	7.98
4.0	56x0.3	0.8	4.2	48	4.95
6.0	84x0.3	0.8	4.8	68	3.30
10	80x0.4	1.0	6.1	114	1.91
16	127x0.4	1.0	7.1	173	1.21
25	199x0.4	1.2	9.3	272	0.780
35	278x0.4	1.2	10.7	365	0.554
50	398x0.4	1.4	12.6	520	0.386
70	357x0.5	1.4	14.4	712	0.272
95	484x0.5	1.6	16.4	956	0.206
120	612x0.5	1.6	18.2	1210	0.161
150	765x0.5	1.8	20.2	1520	0.129
185	943x0.5	2.0	22.4	1874	0.106
240	1224x0.5	2.2	25.4	2420	0.0801

FLEXIBLE PVC CABLES WITH PVC INSULATION
NYLHY , HO3VV-K / 300/300 V

Application : These cables are useful for use in domestic premises, kitchen, office for light duties for light portable appliance. These cable can be used in applications where extra flexibilities is required provided there is no danger of damage. Not suitable for cooking or heating application.

Specification : IEC 60227 , BS-6500 , VDE-0250 , ISIRI(607)

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 , VDE 0295 , ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour
4) Assembly : Core twisted together to make a round assembly with fillers wherever necessary.
5) Outer sheath : Polyvinyl chloride -PVC .
   standard colour is white, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/300 V R.M.S
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 1500 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x0.5	16x0.2	0.5	0.6	5.2	40
2x0.75	24x0.2	0.5	0.6	5.7	49
3x0.5	16x0.2	0.5	0.6	5.6	48
3x0.75	24x0.2	0.5	0.6	6.0	60
4x0.5	16x0.2	0.5	0.6	6.1	58
4x0.75	24x0.2	0.5	0.6	6.6	6.6

FLEXIBLE PVC CABLES WITH PVC INSULATION
NYMHY , H05VV-K 300/500 V

Application : These cables are useful for use in dry or damp locations for medium duties in domestic premises, kitchens, office. Suitable for washing machines, refrigerator etc. Can be used for cooking and heating appliance provided that the cable does not come in contact with the hot parts.

Specification : IEC 60227 , BS-6500 , VDE-0250 , ISIRI (607)

Construction :
1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228,VDE 0295, ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour
4) Assembly : Core twisted together to make a round assembly with fillers wherever necessary.
5) Outer sheath : Polyvinyl chloride -PVC.
standard colour is black, but any other colour can be supplied on request.

Technical data :
1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V R.M.S
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 2000 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Approx. Overall diameter	Approx. weight	Max. d.c. resistance
mm^2	N x d_{mm}	mm	mm	Kg/km	Ω/km
2x0.75	24x0.2	0.6	0.8	6.5	61
2x1	32x0.2	0.6	0.8	6.8	70
2x1.5	30x0.25	0.7	0.8	7.7	91
2x2.5	50x0.25	0.8	1.0	9.4	138
2x4	56x0.3	0.8	1.1	10.7	190
3x0.75	24x0.2	0.6	0.8	6.9	72
3x1	32x0.2	0.6	0.8	7.2	84
3x1.5	30x0.25	0.7	0.9	8.4	112
3x2.5	50x0.25	0.8	1.1	10.2	172
3x4	56x0.3	0.8	1.2	11.6	240
4x0.75	24x0.2	0.6	0.9	7.7	90
4x1	32x0.2	0.6	0.9	8.1	104
4x1.5	30x0.25	0.7	1.0	9.3	142
4x2.5	50x0.25	0.8	1.1	11.1	210
4x4	56x0.3	0.8	1.2	12.6	295
5x0.75	24x0.2	0.6	0.9	8.4	110
5x1	32x0.2	0.6	0.9	8.8	130
5x1.5	30x0.25	0.7	1.1	10.4	180
5x2.5	50x0.25	0.8	1.2	12.4	265
5x4	56x0 3	0 8	1 4	14 4	380

FLEXIBLE PVC CABLES
CU/PVC/PVC H07VV-K 450/750 V

Application : These flexible control cables is suitable for all electrical installation in dry or humid location, under industrial condition, but not in the open air . Applications include machine tool manufacture, power station, heating and air conditioning installation etc.

Specification : VDE - 0281

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 or VDE 0295
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour
4) Assembly : Core twisted together to make a round assembly with fillers wherever necessary.
5) Outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 450/750 V R.M.S
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 2500 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x6	84x0.3	0.8	1.2	12	257
2x10	80x0.4	1.0	1.4	14.6	400
2x16	127x0.4	1.0	1.4	17.5	585
3x6	84x0.3	0.8	1.4	12.8	320
3x10	80x0.4	1.0	1.4	16.4	535
3x16	127x0.4	1.0	1.4	19.2	780
4x6	84x0.3	0.8	1.4	14	395
4x10	80x0.4	1.0	1.4	18	655
4x16	127x0.4	1.0	1.6	21	965
5x6	84x0.3	0.8	1.4	15.5	480
5x10	80x0.4	1.0	1.6	20.2	820
5x16	127x0.4	1.0	1.8	23.2	1160

FLEXIBLE PVC CABLES
NYSLY-OJ , H05VV-K / 300/500 V

Application : These cables are recommended for all electrical installations in dry or humid locations. These cables are specially suitable for control purposes in machine tool manufacturing, production lines, industrial plants, air conditioning installation and steel plants.

Specification : IEC 60227 , VDE-0250

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 or VDE 0295
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : Black with white numbered. Cables with three or more cores shall have one core coloured green/yellow.
4) Assembly : The cores twisted together, if necessary in several concentric layers. The assembly is covered with a polyester tape if necessary
5) Outer sheath : Polyvinyl chloride -PVC.
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V R.M.S
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 2000 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

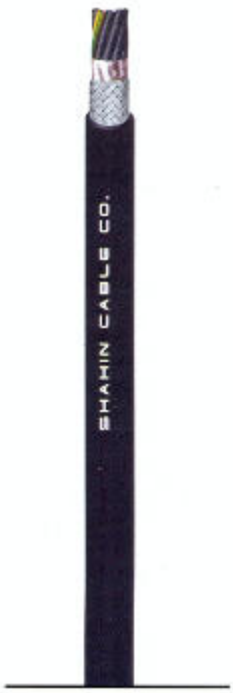
Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x0.5	16x0.2	0.6	0.7	6.0	50
3x0.5	16x0.2	0.6	0.7	6.3	60
4x0.5	16x0.2	0.6	0.8	7.0	73
5x0.5	16x0.2	0.6	0.8	7.7	84
6x0.5	16x0.2	0.6	0.9	8.5	102
7x0.5	16x0.2	0.6	0.9	9.5	116
8x0.5	16x0.2	0.6	1.0	10.5	148
10x0.5	16x0.2	0.6	1.0	11.0	162
12x0.5	16x0.2	0.6	1.1	11.5	188
14x0.5	16x0.2	0.6	1.1	12	210
16x0.5	16x0.2	0.6	1.2	12.8	240
20x0.5	16x0.2	0.6	1.2	14.5	292
24x0.5	16x0.2	0.6	1.4	16.1	355
27x0.5	16x0.2	0.6	1.4	16.5	382
30x0.5	16x0.2	0.6	1.4	17.0	420
34x0.5	16x0.2	0.6	1.5	18	462
37x0.5	16x0.2	0.6	1.5	18.5	495
40x0.5	16x0.2	0.6	1.6	19.8	510
50x0.5	16x0.2	0.6	1.7	21.5	640
61x0.5	16x0.2	0.6	1.8	23.0	746

H05VV-K,NYSLY-O-J , 300/500 V

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x0.75	24x0.2	0.6	0.8	6.6	62
3x0.75	24x0.2	0.6	0.8	7.0	72
4x0.75	24x0.2	0.6	0.8	7.6	88
5x0.75	24x0.2	0.6	0.9	8.5	106
6x0.75	24x0.2	0.6	0.9	9.2	122
7x0.75	24x0.2	0.6	1.0	10.4	146
8x0.75	24x0.2	0.6	1.1	11.4	184
10x0.75	24x0.2	0.6	1.1	11.8	202
12x0.75	24x0.2	0.6	1.1	12.2	228
14x0.75	24x0.2	0.6	1.2	13.0	265
16x0.75	24x0.2	0.6	1.2	13.6	295
20x0.75	24x0.2	0.6	1.4	15.5	345
24x0.75	24x0.2	0.6	1.5	17.5	444
27x0.75	24x0.2	0.6	1.5	18.0	490
30x0.75	24x0.2	0.6	1.5	18.5	530
34x0.75	24x0.2	0.6	1.6	19.2	605
37x0.75	24x0.2	0.6	1.6	19.6	620
40x0.75	24x0.2	0.6	1.7	20.5	650
50x0.75	24x0.2	0.6	1.8	23.2	804
61x0.75	24x0.2	0.6	2.0	25.0	970
2x1.0	32x0.2	0.6	0.8	6.8	72
3x1.0	32x0.2	0.6	0.8	7.2	86
4x1.0	32x0.2	0.6	0.8	8.0	102
5x1.0	32x0.2	0.6	0.9	8.8	126
6x1.0	32x0.2	0.6	1.0	9.8	150
7x1.0	32x0.2	0.6	1.0	11.0	174
8x1.0	32x0.2	0.6	1.1	12.0	210
10x1.0	32x0.2	0.6	1.2	12.6	240
12x1.0	32x0.2	0.6	1.2	13.2	280
14x1.0	32x0.2	0.6	1.2	13.8	312
16x1.0	32x0.2	0.6	1.2	14.6	360
20x1.0	32x0.2	0.6	1.4	16.5	384
24x1.0	32x0.2	0.6	1.5	18.6	530
27x1.0	32x0.2	0.6	1.5	19.0	580
30x1.0	32x0.2	0.6	1.6	19.6	640
34x1.0	32x0.2	0.6	1.7	21.1	710
37x1.0	32x0.2	0.6	1.7	21.6	760
40x1.0	32x0.2	0.6	1.8	22.4	788
50x1.0	32x0.2	0.6	1.9	25.0	980
61x1.0	32x0.2	0.6	2.1	26.8	1150

H05VV-K,NYSLY-O-J , 300/500 V

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x1.5	30x0.25	0.6	0.8	7.2	84
3x1.5	30x0.25	0.6	0.8	7.7	104
4x1.5	30x0.25	0.6	1.0	8.8	135
5x1.5	30x0.25	0.6	1.0	9.6	164
6x1.5	30x0.25	0.6	1.0	10.4	198
7x1.5	30x0.25	0.6	1.2	10.8	215
8x1.5	30x0.25	0.6	1.2	13	285
10x1.5	30x0.25	0.6	1.2	13.6	300
12x1.5	30x0.25	0.6	1.2	14	345
14x1.5	30x0.25	0.6	1.4	15.2	385
16x1.5	30x0.25	0.6	1.5	16.2	470
20x1.5	30x0.25	0.6	1.6	18.6	605
24x1.5	30x0.25	0.6	1.8	20.5	695
27x1.5	30x0.25	0.6	1.8	21	760
30x1.5	30x0.25	0.6	1.8	21.6	835
34x1.5	30x0.25	0.6	1.8	23.2	970
37x1.5	30x0.25	0.6	2.0	23.2	1020
40x1.5	30x0.25	0.6	2.0	25	1105
50x1.5	30x0.25	0.6	2.1	27.8	1380
61x1.5	30x0.25	0.6	2.1	29.5	1620
2x2.5	50x0.25	0.7	0.9	8.8	127
3x2.5	50x0.25	0.7	1.0	9.6	162
4x2.5	50x0.25	0.7	1.2	10.9	210
5x2.5	50x0.25	0.7	1.2	11.9	260
6x2.5	50x0.25	0.7	1.2	13	305
7x2.5	50x0.25	0.7	1.2	13	320
8x2.5	50x0.25	0.7	1.4	16.1	420
10x2.5	50x0.25	0.7	1.5	17	470
12x2.5	50x0.25	0.7	1.5	17.6	545
14x2.5	50x0.25	0.7	1.6	18.8	615
16x2.5	50x0.25	0.7	1.7	20	720
20x2.5	50x0.25	0.7	1.8	23	910
24x2.5	50x0.25	0.7	2.0	25	1090
27x2.5	50x0.25	0.7	2.1	25.8	1140
30x2.5	50x0.25	0.7	2.1	26.8	1250
34x2.5	50x0.25	0.7	2.1	28.8	1520
37x2.5	50x0.25	0.7	2.3	28.8	1590
40x2.5	50x0.25	0.7	2.3	31	1770
50x2.5	50x0.25	0.7	2.4	34.4	2140
61x2.5	50x0.25	0.7	2.7	37	2560



FLEXIBLE PVC CABLES WITH SHIELDED NYSLCY-O- J , H05VC4V-K , 300/500 V

Application : These cables are recommended for all electrical installations in dry or humid locations. These cables are specially suitable for control purposes in machine tool manufacturing, conveyor and assembly lines subject to medium mechanical stresses for fixed or flexible installation.

Specification : IEC 60227 , VDE-0250

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 or VDE 0295
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : Black with white numbered. Cables with three or more cores shall have one core coloured green/yellow.
4) Assembly : The cores twisted together, if necessary in several concentric layers. The assembly is covered with a polyester tape if necessary
5) Screening : braiding of plain copper or tinned copper wire with 85% coverage.
6) Outer sheath : Polyvinyl chloride -PVC.
   standard colour is black or grey, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V R.M.S
3) Conductor resistance : As per class 5 of IEC 60228
4) Test voltage : 2000 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{nn}	mm	mm	mm	mm	Kg/km
2x0.5	16x0.2	0.6	0.16	0.8	6.6	64
3x0.5	16x0.2	0.6	0.16	0.8	6.8	75
4x0.5	16x0.2	0.6	0.16	0.8	7.4	95
5x0.5	16x0.2	0.6	0.16	0.8	8.0	115
6x0.5	16x0.2	0.6	0.16	1.0	9.2	125
7x0.5	16x0.2	0.6	0.16	1.0	9.2	135
8x0.5	16x0.2	0.6	0.16	1.0	10.6	150
10x0.5	16x0.2	0.6	0.21	1.2	11.8	180
12x0.5	16x0.2	0.6	0.21	1.2	12.4	205
14x0.5	16x0.2	0.6	0.21	1.2	13.0	230
16x0.5	16x0.2	0.6	0.21	1.2	13.6	270
20x0.5	16x0.2	0.6	0.21	1.5	16.0	340
24x0.5	16x0.2	0.6	0.21	1.5	17.0	400
27x0.5	16x0.2	0.6	0.21	1.6	17.6	420
30x0.5	16x0.2	0.6	0.21	1.6	18.2	455
34x0.5	16x0.2	0.6	0.21	1.8	20.0	520
37x0.5	16x0.2	0.6	0.21	1.8	20.4	535
40x0.5	16x0.2	0.6	0.26	1.8	21.2	580
50x0.5	16x0.2	0.6	0.26	1.8	23.4	740
61x0.5	16x0.2	0.6	0.26	1.8	24.6	880

H05VC4V-K,NYSLCY-O-J, 300/500 V

Size	No. strand x diameter	Insulation thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{nm}	mm	mm	mm	mm	Kg/km
2x0.75	24x0.2	0.6	0.16	0.8	6.8	82
3x0.75	24x0.2	0.6	0.16	0.8	7.2	94
4x0.75	24x0.2	0.6	0.16	0.8	7.8	114
5x0.75	24x0.2	0.6	0.16	1.0	8.8	130
6x0.75	24x0.2	0.6	0.16	1.0	9.6	154
7x0.75	24x0.2	0.6	0.16	1.0	9.6	155
8x0.75	24x0.2	0.6	0.16	1.0	11.2	180
10x0.75	24x0.2	0.6	0.21	1.2	12.4	230
12x0.75	24x0.2	0.6	0.21	1.2	12.8	260
14x0.75	24x0.2	0.6	0.21	1.2	13.4	305
16x0.75	24x0.2	0.6	0.21	1.2	14.0	340
20x0.75	24x0.2	0.6	0.21	1.5	16.5	420
24x0.75	24x0.2	0.6	0.21	1.5	17.8	485
27x0.75	24x0.2	0.6	0.21	1.8	18.0	520
30x0.75	24x0.2	0.6	0.21	1.8	19.2	570
34x0.75	24x0.2	0.6	0.21	1.8	20.8	640
37x0.75	24x0.2	0.6	0.21	1.8	21.0	670
40x0.75	24x0.2	0.6	0.26	1.8	22.0	730
50x0.75	24x0.2	0.6	0.26	1.8	24.0	920
61x0.75	24x0.2	0.6	0.26	2.1	26	1100
2x1	32x0.2	0.6	0.16	0.8	7.2	85
3x1	32x0.2	0.6	0.16	0.8	7.6	105
4x1	32x0.2	0.6	0.16	0.8	8.4	125
5x1	32x0.2	0.6	0.16	1.0	9.4	150
6x1	32x0.2	0.6	0.16	1.0	10.2	170
7x1	32x0.2	0.6	0.16	1.0	10.2	180
8x1	32x0.2	0.6	0.16	1.0	12.2	210
10x1	32x0.2	0.6	0.21	1.2	13.2	276
12x1	32x0.2	0.6	0.21	1.2	13.8	310
14x1	32x0.2	0.6	0.21	1.2	14.4	340
16x1	32x0.2	0.6	0.21	1.5	15.8	400
20x1	32x0.2	0.6	0.21	1.5	17.8	480
24x1	32x0.2	0.6	0.21	1.8	19.8	560
27x1	32x0.2	0.6	0.21	1.8	20.0	600
30x1	32x0.2	0.6	0.21	1.8	20.6	660
34x1	32x0.2	0.6	0.21	1.8	22.2	780
37x1	32x0.2	0.6	0.26	1.8	22.5	820
40x1	32x0.2	0.6	0.26	2.1	24.2	880
50x1	32x0.2	0.6	0.26	2.1	26.4	1100
61x1	32x0.2	0.6	0.26	2.2	28.2	1300

H05VC4V-K,NYSLCY-O-J , 300/500 V

Size	No. strand x diameter	Insulation thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
2x1.5	30x0.25	0.6	0.16	0.8	8.0	112
3x1.5	30x0.25	0.6	0.16	0.8	8.5	135
4x1.5	30x0.25	0.6	0.16	1.0	9.6	165
5x1.5	30x0.25	0.6	0.16	1.0	10.2	200
6x1.5	30x0.25	0.6	0.16	1.2	11.6	240
7x1.5	30x0.25	0.6	0.16	1.2	11.8	250
8x1.5	30x0.25	0.6	0.16	1.2	13.8	280
10x1.5	30x0.25	0.6	0.21	1.2	14.6	360
12x1.5	30x0.25	0.6	0.21	1.2	15.2	410
14x1.5	30x0.25	0.6	0.21	1.5	16.4	480
16x1.5	30x0.25	0.6	0.21	1.5	17.2	530
20x1.5	30x0.25	0.6	0.21	1.8	20.0	650
24x1.5	30x0.25	0.6	0.21	1.8	21.4	770
27x1.5	30x0.25	0.6	0.21	1.8	21.6	860
30x1.5	30x0.25	0.6	0.21	1.8	22.4	950
34x1.5	30x0.25	0.6	0.26	1.8	24.4	1120
37x1.5	30x0.25	0.6	0.26	1.8	24.6	1150
40x1.5	30x0.25	0.6	0.26	2	26.2	1250
50x1.5	30x0.25	0.6	0.26	2.1	29.0	1580
61x1.5	30x0.25	0.6	0.26	2.1	30.8	1780
2x2.5	50x0.25	0.7	0.16	1.0	9.4	150
3x2.5	50x0.25	0.7	0.16	1.0	10.2	185
4x2.5	50x0.25	0.7	0.16	1.2	11.4	240
5x2.5	50x0.25	0.7	0.21	1.2	12.6	290
6x2.5	50x0.25	0.7	0.21	1.2	13.4	370
7x2.5	50x0.25	0.7	0.21	1.2	13.4	380
8x2.5	50x0.25	0.7	0.21	1.5	17.0	440
10x2.5	50x0.25	0.7	0.21	1.5	17.8	555
12x2.5	50x0.25	0.7	0.21	1.5	18.1	630
14x2.5	50x0.25	0.7	0.21	1.6	19.4	710
16x2.5	50x0.25	0.7	0.21	1.8	20.6	810
20x2.5	50x0.25	0.7	0.26	1.8	23.6	980
24x2.5	50x0.25	0.7	0.26	1.8	26.0	1180
27x2.5	50x0.25	0.7	0.26	2.1	26.4	1330
30x2.5	50x0.25	0.7	0.26	2.1	27.2	1460
34x2.5	50x0.25	0.7	0.26	2.1	29.4	1670
37x2.5	50x0.25	0.7	0.26	2.1	29.6	1720
40x2.5	50x0.25	0.7	0.31	2.3	31.5	1830
50x2.5	50x0.25	0.7	0.31	2.4	35.0	2320
61x2.5	50x0.25	0.7	0.31	2.7	37.5	2670

FLEXIBLE PVC CABLES WITH SHIELDED

NYSLYCY-O- J , H05VVC4V-K , 300/500 V

Application : These cables are recommended for all electrical installations in dry or humid locations. These cables are specially suitable for control purposes in machine tool manufacturing, conveyor and assembly lines subject to medium mechanical stresses for fixed or flexible installation.

Specification : IEC 60227 , VDE-0250

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 or VDE 0295
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : Black with white numbered. Cables with three or more cores shall have one core coloured green/yellow.
4) Assembly : The cores twisted together, if necessary in several concentric layers. The assembly is covered with a polyester tape if necessary
5) Inner sheath : Polyvinyl chloride -PVC, Colour can be supplied on request.
6) Screening : braiding of plain copper or tinned copper wire with 85% coverage.
7) Outer sheath : Polyvinyl chloride -PVC
   standard colour is black or grey, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V R.M.S
3) Conductor resistance : As per class 5 of VDE 0295 , IEC 60228
4) Test voltage : 2000 VAC for 5 minute
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thicknes	Inner Sheath thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
2x0.5	16x0.2	0.6	0.6	0.16	1.0	8.2	102
3x0.5	16x0.2	0.6	0.6	0.16	1.0	8.4	114
4x0.5	16x0.2	0.6	0.7	0.16	1.0	9.2	132
5x0.5	16x0.2	0.6	0.7	0.16	1.2	10.2	156
6x0.5	16x0.2	0.6	0.7	0.16	1.2	11	170
7x0.5	16x0.2	0.6	0.7	0.16	1.2	11	180
8x0.5	16x0.2	0.6	0.8	0.16	1.2	12.6	210
10x0.5	16x0.2	0.6	0.8	0.21	1.2	13.4	250
12x0.5	16x0.2	0.6	0.8	0.21	1.2	14	280
14x0.5	16x0.2	0.6	0.8	0.21	1.4	15	315
16x0.5	16x0.2	0.6	1.0	0.21	1.5	16.2	360
20x0.5	16x0.2	0.6	1.0	0.21	1.6	18.2	420
24x0.5	16x0.2	0.6	1.0	0.21	1.8	19.6	500
27x0.5	16x0.2	0.6	1.0	0.21	1.8	20	535
30x0.5	16x0.2	0.6	1.0	0.21	1.8	20.6	580
34x0.5	16x0.2	0.6	1.0	0.21	1.8	22	670
37x0.5	16x0.2	0.6	1.2	0.21	2.0	22.4	680
40x0.5	16x0.2	0.6	1.2	0.26	2.0	24	725
50x0.5	16x0.2	0.6	1.2	0.26	2.1	26.2	910
61x0.5	16x0.2	0.6	1.2	0.26	2.1	27.6	1060

H05VVC4V-K,NYSLYCY-O-J , 300/500 V

Size	No. strand x diameter	Insulation thicknes	Inner Sheath thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
2x0.75	24x0.2	0.6	0.6	0.16	1.0	8.4	125
3x0.75	24x0.2	0.6	0.6	0.16	1.0	8.8	132
4x0.75	24x0.2	0.6	0.7	0.16	1.2	10	154
5x0.75	24x0.2	0.6	0.7	0.16	1.2	10.6	180
6x0.75	24x0.2	0.6	0.7	0.16	1.2	11.3	210
7x0.75	24x0.2	0.6	0.7	0.16	1.2	11.3	210
8x0.75	24x0.2	0.6	0.8	0.16	1.2	13.2	240
10x0.75	24x0.2	0.6	0.8	0.21	1.2	14	310
12x0.75	24x0.2	0.6	0.8	0.21	1.2	14.4	355
14x0.75	24x0.2	0.6	1.0	0.21	1.4	15.8	392
16x0.75	24x0.2	0.6	1.0	0.21	1.5	16.6	432
20x0.75	24x0.2	0.6	1.0	0.21	1.5	18.5	500
24x0.75	24x0.2	0.6	1.0	0.21	1.8	20.2	610
27x0.75	24x0.2	0.6	1.0	0.21	1.8	20.6	660
30x0.75	24x0.2	0.6	1.2	0.21	1.8	21.6	705
34x0.75	24x0.2	0.6	1.2	0.21	1.8	23	790
37x0.75	24x0.2	0.6	1.2	0.21	1.8	23	820
40x0.75	24x0.2	0.6	1.2	0.26	2.0	24.6	880
50x0.75	24x0.2	0.6	1.2	0.26	2.1	27	1120
61x0.75	24x0.2	0.6	1.4	0.26	2.1	28.8	1300
2x1	32x0.2	0.6	0.7	0.16	1.0	9	130
3x1	32x0.2	0.6	0.7	0.16	1.0	9.4	150
4x1	32x0.2	0.6	0.7	0.16	1.2	10.5	175
5x1	32x0.2	0.6	0.7	0.16	1.2	11.2	205
6x1	32x0.2	0.6	0.7	0.16	1.2	12	230
7x1	32x0.2	0.6	0.7	0.16	1.2	12	240
8x1	32x0.2	0.6	1.0	0.16	1.2	14.5	280
10x1	32x0.2	0.6	1.0	0.21	1.2	15.2	360
12x1	32x0.2	0.6	1.0	0.21	1.5	16.2	410
14x1	32x0.2	0.6	1.0	0.21	1.5	16.9	450
16x1	32x0.2	0.6	1.0	0.21	1.8	18.2	505
20x1	32x0.2	0.6	1.0	0.21	1.8	20.2	610
24x1	32x0.2	0.6	1.2	0.21	1.8	22	715
27x1	32x0.2	0.6	1.2	0.21	1.8	22.2	760
30x1	32x0.2	0.6	1.2	0.21	2.0	23.3	820
34x1	32x0.2	0.6	1.2	0.21	2.1	25	940
37x1	32x0.2	0.6	1.2	0.26	2.1	25.2	994
40x1	32x0.2	0.6	1.4	0.26	2.1	26.8	1060
50x1	32x0.2	0.6	1.4	0.26	2.1	29	1320
61x1	32x0.2	0.6	1.4	0.26	2.4	31.2	1530

H05VVC4V-K,NYSLYCY-O-J, 300/500 V

Size	No. strand x diameter	Insulation thicknes	Inner Sheath thickness	Dia. Of Ind. Wire of screen	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
2x1.5	30x0.25	0.6	0.7	0.16	1.2	10	170
3x1.5	30x0.25	0.6	0.7	0.16	1.2	10.5	194
4x1.5	30x0.25	0.6	0.7	0.16	1.2	11.2	230
5x1.5	30x0.25	0.6	0.7	0.16	1.2	12	280
6x1.5	30x0.25	0.6	0.8	0.16	1.2	13	328
7x1.5	30x0.25	0.6	0.8	0.16	1.2	13	340
8x1.5	30x0.25	0.6	0.8	0.16	1.2	15.2	376
10x1.5	30x0.25	0.6	1.0	0.21	1.5	17	480
12x1.5	30x0.25	0.6	1.0	0.21	1.5	17.5	520
14x1.5	30x0.25	0.6	1.0	0.21	1.5	18.2	616
16x1.5	30x0.25	0.6	1.0	0.21	1.8	19.6	690
20x1.5	30x0.25	0.6	1.2	0.21	1.8	22.2	850
24x1.5	30x0.25	0.6	1.2	0.21	2.1	24.2	980
27x1.5	30x0.25	0.6	1.2	0.21	2.1	24.6	1050
30x1.5	30x0.25	0.6	1.2	0.21	2.1	25.4	1145
34x1.5	30x0.25	0.6	1.2	0.26	2.1	27.2	1350
37x1.5	30x0.25	0.6	1.2	0.26	2.1	27.2	1390
40x1.5	30x0.25	0.6	1.4	0.26	2.3	29.4	1490
50x1.5	30x0.25	0.6	1.4	0.26	2.4	32.2	1810
61x1.5	30x0.25	0.6	1.4	0.26	2.4	34	2100
2x2.5	50x0.25	0.7	0.7	0.16	1.2	11.2	228
3x2.5	50x0.25	0.7	0.7	0.16	1.2	11.8	260
4x2.5	50x0.25	0.7	0.8	0.16	1.2	12.8	320
5x2.5	50x0.25	0.7	0.8	0.21	1.2	14	386
6x2.5	50x0.25	0.7	0.8	0.21	1.2	14.8	470
7x2.5	50x0.25	0.7	0.8	0.21	1.2	14.8	486
8x2.5	50x0.25	0.7	1.0	0.21	1.6	19	550
10x2.5	50x0.25	0.7	1.0	0.21	1.6	19.8	710
12x2.5	50x0.25	0.7	1.0	0.21	1.8	20.5	780
14x2.5	50x0.25	0.7	1.0	0.21	1.8	21.5	870
16x2.5	50x0.25	0.7	1.2	0.21	2.0	23.2	985
20x2.5	50x0.25	0.7	1.2	0.26	2.1	26.4	1130
24x2.5	50x0.25	0.7	1.4	0.26	2.1	28.5	1430
27x2.5	50x0.25	0.7	1.4	0.26	2.1	29	1570
30x2.5	50x0.25	0.7	1.4	0.26	2.2	30	1700
34x2.5	50x0.25	0.7	1.4	0.26	2.4	32.5	1950
37x2.5	50x0.25	0.7	1.4	0.26	2.4	32.5	2010
40x2.5	50x0.25	0.7	1.6	0.31	2.7	35.3	2140
50x2.5	50x0.25	0.7	1.6	0.31	2.7	38.5	2640
61x2.5	50x0.25	0.7	1.6	0.31	2.7	40.5	3030

FLEXIBLE FLAT PVC CABLES
NYFLY , 300/500 V , 450/750 V

Application : These types of cables are mainly used as trailing cable for crane installation, floor conveyor systems, shelf control unit, hoist equipment, transparent installations and as lead-in for moving machine parts.

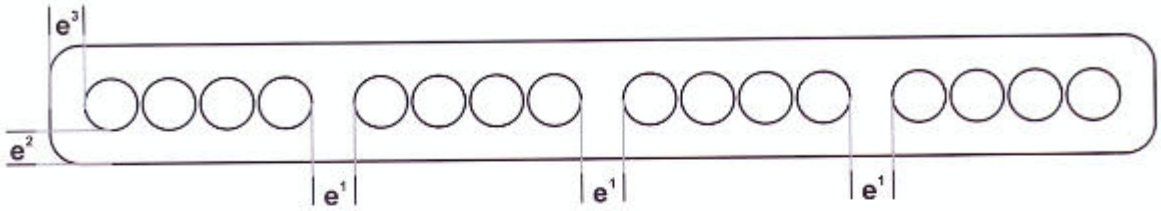
Specification : IEC 60227 , ISIRI (607) , VDE 0281

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 or 6 of IEC 60228
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour or numbered
4) Outer sheath : Polyvinyl chloride PVC
   standard colour is black or grey, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +70°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 300/500 V up to 1.0 mm^2 , 450/750 V for 1.5 mm^2 and above
4) Conductor resistance : As per class 5 of IEC 60228
5) Test voltage : 2000 V rms for 300/500 V cables , 2500 V rms for 450/750 V cables
6) Flame retardant : Acc. IEC 60332-1



NYFLY , 300/500 V

300/500 V

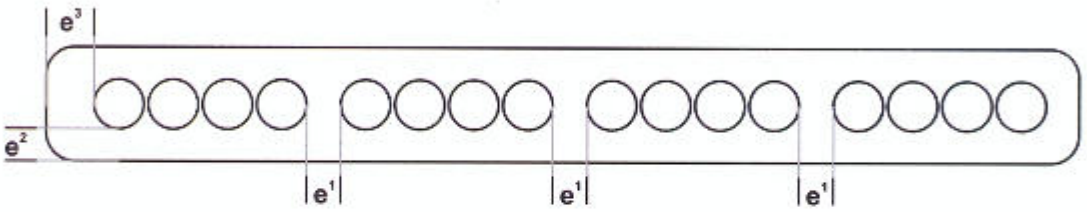
Size	No strand diameter	Insulation thickness	Distance thickness e_1	Sheath thickness e_2 - e_3	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x0.75	24x0.20	0.6	-	0.9 – 1.5	10.2 x 4.2	82
4x0.75	24x0.20	0.6	-	0.9 – 1.5	13.4 x 4.2	110
5x0.75	24x0.20	0.6	1	0.9 – 1.5	17 x 4.2	135
6x0.75	24x0.20	0.6	1	0.9 – 1.5	18.2 x 4.2	152
9x0.75	24x0.20	0.6	1	0.9 – 1.5	26.4 x 4.2	220
12x0.75	24x0.20	0.6	1	0.9 – 1.5	33.6 x 4.2	280
16x0.75	24x0.20	0.6	1	0.9 – 1.5	44.2 x 4.2	370
18x0.75	24x0.20	0.6	1	0.9 – 1.5	49 x 4.2	410
20x0.75	24x0.20	0.6	1	0.9 – 1.5	55 x 4.2	450
24x0.75	24x0.20	0.6	1	0.9 – 1.5	65.2 x 4.2	540

300/500 V

Size	No strand diameter	Insulation thickness	Distance thickness e_1	Sheath thickness e_2 - e_3	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x1	32x0.2	0.6	-	0.9 – 1.5	10.5 x 4.3	92
4x1	32x0.2	0.6	-	0.9 – 1.5	14 x 4.3	123
5x1	32x0.2	0.6	1	0.9 – 1.5	17.5 x 4.3	154
6x1	32x0.2	0.6	1	0.9 – 1.5	19 x 4.3	170
9x1	32x0.2	0.6	1	0.9 – 1.5	27.5 x 4.3	245
12x1	32x0.2	0.6	1	0.9 – 1.5	35 x 4.3	320
16x1	32x0.2	0.6	1	0.9 – 1.5	46 x 4.3	420
18x1	32x0.2	0.6	1	0.9 – 1.5	51 x 4.3	466
20x1	32x0.2	0.6	1	0.9 – 1.5	57 x 4.3	520
24x1	32x0.2	0.6	1	0.9 – 1.5	68x4.3	600

450/750 V

Size	No strand diameter	Insulation thickness	Distance thickness e_1	Sheath thickness e_2 - e_3	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x1.5	30x0.25	0.7	-	1 - 1.5	12 x 5	120
4x1.5	30x0.25	0.7	-	1 - 1.5	15 x 5	150
5x1.5	30x0.25	0.7	1	1 - 1.5	20 x 5	198
6x1.5	30x0.25	0.7	1	1 - 1.5	22 x 5	220
9x1.5	30x0.25	0.7	1	1 - 1.5	32 x 5	314
12x1.5	30x0.25	0.7	1	1 - 1.5	44 x 5	440
16x1.5	30x0.25	0.7	1	1 - 1.5	54 x 5	560
18x1.5	30x0.25	0.7	1	1 - 1.5	60 x 5	630
20x1.5	30x0.25	0.7	1	1 - 1.5	67 x 5	696
24x1.5	30x0.25	0.7	1	1 - 1.5	80 x 5	834



NYFLY , 450/750 V

Size	No strand x diameter	Insulation thickness	Distance thickness e_1	Sheath thickness e_2 - e_3	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x2.5	50x0.25	0.8	-	1 - 1.8	14.4 x 5.6	170
4x2.5	50x0.25	0.8	-	1 - 1.8	18 x 5.6	220
5x2.5	50x0.25	0.8	1.5	1 - 1.8	24.5 x 5.6	290
6x2.5	50x0.25	0.8	1.5	1 - 1.8	26.7 x 5.6	328
9x2.5	50x0.25	0.8	1.5	1 - 1.8	39.5 x 5.6	458
12x2.5	50x0.25	0.8	1.5	1 - 1.8	50 x 5.6	622
16x2.5	50x0.25	0.8	1.5	1 - 1.8	66 x 5.6	830
18x2.5	50x0.25	0.8	1.5	1 - 1.8	74 x 5.6	930
20x2.5	50x0.25	0.8	1.5	1 - 1.8	81.5 x 5.6	1022
24x2.5	50x0.25	0.8	1.5	1 - 1.8	98.8 x 5.6	1270

NYFLY , 450/750 V, 600/1000 V

Size	No strand x diameter	Insulation thickness	Distance thickness e_1	Sheath thickness e_2 - e_3	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x4	56x0.3	0.8	-	1.2 – 1.8	16.2 x 6.6	244
4x4	56x0.3	0.8	-	1.2 – 1.8	20 x 6.6	308
5x4	56x0.3	0.8	1.5	1.2 – 1.8	27.6 x 6.6	410
3x6	84x0.3	0.8	-	1.2 – 1.8	18 x 7.2	320
4x6	84x0.3	0.8	-	1.2 – 1.8	23 x 7.2	410
5x6	84x0.3	0.8	1.5	1.2 – 1.8	30.6 x 7.2	535
3x10	80x0.4	1.0	-	1.4 – 1.8	22.2 x 9	512
4x10	80x0.4	1.0	-	1.4 – 1.8	28.5 x 9	655
5x10	80x0.4	1.0	1.5	1.4 – 1.8	37.6 x 9	850
3x16	127x0.4	1.0	-	1.5 – 2.0	25.2 x 10.3	710
4x16	127x0.4	1.0	-	1.5 – 2.0	33.2 x 10.3	940
3x25	127x0.4	1.2	-	1.6 – 2	33 x 12.6	1110
3x35	278x0.4	1.2	-	1.6 – 2	37 x 13.8	1492
3x50	398x0.4	1.4	-	1.8 – 2.2	43.5 x 17.2	2000
3x70	357x0.5	1.4	-	1.8 – 2.2	49.6 x 19.2	2794
3x95	484x0.5	1.6		2.0 – 2.4	57.3 x 22	3670

FLEXIBLE POWER CABLES WITH PVC INSULATION SINGLE CORE CU/PVC/PVC , 0.6/1.0 kv

Application : Can be used indoor or outdoor in cable duct or tray in power and switching stations, industrial plants and commercial building. Suitable for direct burial where there is no danger of mechanical damage.

Specification : IEC 60502-1, ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228 , ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Outer sheath : Polyvinyl chloride- PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 5 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
1x4	56x0.3	1.0	1.4	7	84
1x6	84x0.3	1.0	1.4	7.6	108
1x10	127x0.4	1.0	1.4	9	162
1x16	80x0.4	1.0	1.4	10.2	230
1x25	199x0.4	1.2	1.4	12.6	340
1x35	278x0.4	1.2	1.4	13.9	450
1x50	398x0.4	1.4	1.4	16.3	612
1x70	357x0.5	1.4	1.5	18.2	850
1x95	484x0.5	1.6	1.6	21	1110
1x120	612x0.5	1.6	1.6	23	1390
1x150	765x0.5	1.8	1.7	25.4	1720
1x185	943x0.5	2.0	1.8	28.3	2100
1x240	1224x0.5	2.2	1.9	31.8	2730
1x300	1520x0.5	2.4	2.0	35.2	3400
1x400	2030x0.5	2.6	2.2	40	4440

FLEXIBLE POWER AND CONTROL CABLE WITH PVC INSULATION MULTI CORE

CU/PVC/PVC , 0.6/1.0 kv

Application : Can be used indoor or outdoor in cable duct or tray in power and switching stations, industrial plants and commercial building. Suitable for direct burial where there is no danger of mechanical damage.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper stranded as per class 5 of IEC 60228
2) Insulation : Polyvinyl chloride -PVC
3)Core identification : colour
4)Inner covering : Extruded PVC compatible with the operating temperature of the conductor . this inner covering is applicable to cables having conductor of 16 mm^2 and above.
5) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 5 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Inner covering	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
2x1.5	30x0.25	0.8	-	1.8	10	134
2x2.5	50x0.25	0.8	-	1.8	11	174
2x4	56x0.3	1.0	-	1.8	12	221
2x6	84x0.3	1.0	-	1.8	13.2	284
2x10	80x0.4	1.0	-	1.8	15.8	460
2x16	127x0.4	1.0	-	1.8	17.8	660
2x25	199x0.4	1.2	1.0	1.8	25.4	1150
2x35	278x0.4	1.2	1.1	1.8	28	1470
2x50	398x0.4	1.4	1.2	2.0	32.5	1990
2x70	357x0.5	1.4	1.2	2.1	37	2700

CU/PVC/PVC , 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Inner covering	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x1.5	30x0.25	0.8	-	1.8	10.5	132
3x2.5	50x0.25	0.8	-	1.8	11.5	204
3x4	56x0.3	1.0	-	1.8	12.7	270
3x6	84x0.3	1.0	-	1.8	14	360
3x10	80x0.4	1.0	-	1.8	16.8	540
3x16	127x0.4	1.0	-	1.8	19	756
3x25	199x0.4	1.2	1.0	1.8	26	1350
3x35	278x0.4	1.2	1.1	1.9	30	1790
3x50	398x0.4	1.4	1.2	2.0	35	2500
3x70	357x0.5	1.4	1.2	2.2	39.5	3240
3x95	484x0.5	1.6	1.3	2.4	45.6	4400
3x120	612x0.5	1.6	1.4	2.5	50	5400
3x150	765x0.5	1.8	1.5	2.7	55.6	6700
3x25/16	199x0.4 - 127x0.4	1.2 – 1.0	1.1	1.9	28	1520
3x35/16	278x0.4 - 127x0.4	1.2 – 1.0	1.2	2.0	31	1940
3x50/25	398x0.4 - 199x0.4	1.4 – 1.2	1.2	2.1	36.2	2700
3x70/35	357x0.5 - 278x0.4	1.4 – 1.2	1.3	2.3	41	3650
3x95/50	484x0.5 - 398x0.4	1.6 – 1.4	1.4	2.5	47	4800
3x120/70	612x0.5 - 357x0.5	1.6 – 1.4	1.5	2.6	52.4	6060
3x150/70	765x0.5 - 357x0.5	1.8 – 1.4	1.6	2.8	58.4	7340
4x1.5	30x0.25	0.8	-	1.8	11.3	185
4x2.5	50x0.25	0.8	-	1.8	12.4	246
4x4	56x0.3	1.0	-	1.8	13.8	325
4x6	84x0.3	1.0	-	1.8	15.2	425
4x10	80x0.4	1.0	-	1.8	18.4	670
4x16	127x0.4	1.0	-	1.8	20.8	950
4x25	199x0.4	1.2	1.1	1.9	29	1670
4x35	278x0.4	1.2	1.2	2.0	32.6	2220
4x50	398x0.4	1.4	1.3	2.2	38.4	3070
4x70	357x0.5	1.4	1.4	2.4	43.8	4130
4x95	484x0.5	1.6	1.5	2.6	50	5480
4x120	612x0.5	1.6	1.6	2.7	54.8	6860
4x150	765x0.5	1.8	1.6	2.9	61	8540
5x1.5	**30x0.25**	**0.8**	-	**1.8**	**12.3**	226
5x2.5	**50x0.25**	**0.8**	-	**1.8**	**13.5**	300
5x4	**56x0.3**	**1.0**	-	**1.8**	**15.0**	434
5x6	**84x0.3**	**1.0**	-	**1.8**	**16.6**	564
5x10	**80x0.4**	**1.0**	-	**1.8**	**20.4**	845
5x16	**127x0.4**	**1.0**	-	**1.8**	**23.6**	1190
5x25	**199x0.4**	**1.2**	**1.2**	**1.9**	**32.4**	2110
5x35	**278x0.4**	**1.2**	**1.2**	**2.2**	**36.2**	2710
5x50	**398x0.4**	**1.4**	**1.4**	**2.4**	**42.6**	3730

SHAHIN CABLE

Fixed Installation Cables

Polyvinylchloride PVC insulation

450/750 V , 600/1000 V

CU (SOFT/HARD BARE COPPER)

CU/PVC (NYA)

CU/PVC/PVC (NYY-O-J)

CU/PVC/PVC/CWS,CTS/PVC (NYCY , NYSY)

CU/PVC/PVC/AWA,SWA/PVC (NYRY)

CU/PVC/PVC/DTA/PVC (NYBY)

SOFT / HARD DRAWN BARE COPPER CONDUCTORS

Application : 1) Soft drawn : These conductors are used for earthing electrical system where high conductivity is requirement.
2) Hard drawn : These conductors are used for overhead electrical transmission and distribution systems.

Construction : 1) Soft drawn : As per class 2 of IEC-60228
2) Hard drawn : As per BS-125

Soft drawn

Size	No. strand x diameter	Approx. Overall diameter	Approx. weight	Max. d.c. resistance
mm^2	N x d_{mm}	mm	Kg/km	Ω/km
1.0	7 x0.42	1.29	9	18.1
1.5	7 x 0.52	1.59	14	12.1
2.5	7 x 0.67	2.01	22	7.41
4.0	7 x 0.85	2.55	36	4.61
6.0	7 x 1.04	3.12	53	3.08
10	7 x 1.35	4.05	90	1.83
16	7 x 1.70	5.10	144	1.15
25	7 x 2.14	6.42	226	0.727
35	7 x 2.52	7.56	314	0.524
50	19 x 1.78	8.90	426	0.387
70	19 x 2.14	10.70	616	0.268
95	19 x 2.52	12.60	854	0.193
120	37 x 2.03	14.2	1070	0.153
150	37 x 2.25	15.81	1326	0.124
185	37 x 2.52	17.61	1665	0.091
1x240	37x2.88	20.2	2160	0.0754
1x300	37x3/34	22.7	2720	0.0601

Hard drawn

Size	No. strand x diameter	Approx. Overall diamete	Approx. weight	Min. Breaking load
mm^2	N x d_m	mm	Kg/km	KN
10	7 x 1.35	4.1	90	4.02
16	7 x 1.70	5.1	144	6.37
25	7 x 2.12	6.3	218	9.72
35	7 x 2.50	7.5	309	13.78
50	19 x 1.80	9.0	439	19.39
70	19 x 2.10	10.5	597	26.39
95	19 x 2.50	12.5	84	37.40
120	19 x 2.80	14.0	1062	46.91
150	37 x 2.25	15.8	1336	58.99
185	37 x 2.50	17.5	1649	72.83

PVC INSULATED NON SHEATHED SINGLE CORE CABLES

NYA , HO5V-U , HO7V-U, HO7V-R /300/500 v, 450/750 v

Application : These cables are used for the purpose of lighting in residential and commercial building in surface mounted or embedded conduits. Suitable for voltage up to 1000 AC or up to 750 to earth DC when used for fixed installation inside application,switchgear and controlgear.
Specification : IEC 60227-3 , BS-6004 , VDE-0281 , ISIRI(607)01

Construction :

1) Conductor : Plain annealed copper solid as per class 1 of IEC 60228 or stranded as per class 2 of IEC 60228. HO5V-U and HO7V-U correspond to solid conductor . HO7V-R correspond to stranded conductor.
2) Insulation : Polyvinylchloride -PVC

Technical data :

1) Temperature : -25°C to +70°C
2) Working voltage : 300/500 V up to 1.0 mm2 , 450/750 V for 1.5 mm2 and above
3) Conductor resistance : As per class 1 or 2 of IEC 60228
4) Test voltage : 1500 VAC for 300/500 , 2500 VAC for 450/750 V
5) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Approx. Overall diameter	Approx. weight	Max. d.c. resistance
mm^2	N x d_{mm}	mm	mm	Kg/km	Ω/km
0.5	1x0.8	0.6	2.1	9	36
0.75	1x0.98	0.6	2.2	11	24.5
1.0	1x1.13	0.6	2.4	14	18.1
1.5	1x1.38	0.7	2.9	21	12.1
1.5	7x0.53	0.7	3.1	22	12.1
2.5	1x1.78	0.8	3.5	33	7.41
2.5	7x0.67	0.8	3.7	34	7.41
4.0	1x2.25	0.8	3.9	48	4.61
4.0	7x0.85	0.8	4.2	51	4.61
6.0	1x2.76	0.8	4.4	67	3.08
6.0	7x1.04	0.8	4.8	71	3.08
10	7x1.35	1.0	6.2	119	1.83
16	7x1.7	1.0	7.2	179	1.15
25	7x2.14	1.2	8.9	280	0.727
35	7x2.52	1.2	10.1	375	0.524
50	19x1.78	1.4	11.8	506	0.387
70	19x2.14	1.4	13.6	714	0.268
95	19x2.52	1.6	16.0	980	0.193
120	37x2.03	1.6	17.6	1225	0.153
150	37x2.25	1.8	19.5	1505	0.124
185	37x2.52	2.0	21.8	1890	0.0991
240	37x2.88	2.2	24.7	2410	0.0754
300	37x3/34	2.4	27.6	3014	0.0601

PVC INSULATED PVC SHEATHED SINGLE CORE CABLES

NYY , 0.6 / 1.0 kv

Application : These cables can be used indoors or outdoors in cable duct or tray in power and switching station, industrial plant and commercial buildings. Suitable for direct burial where there is no danger of mechanical damage.
Specification : IEC 60502-1 , BS-6346 , VDE-0271 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper solid as per class 1 or stranded as per class2 of IEC 60228
2) Insulation : Polyvinyl chloride- PVC
3) Core identification : colour
4) Outer sheath : Polyvinyl chloride -PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
1x4 re	1x2.26	1.0	1.4	7.1	82
1x4 rm	7x0.85	1.0	1.4	7.4	86
1x6 re	1x2.78	1.0	1.4	7.6	110
1x6 rm	7x1.04	1.0	1.4	7.9	116
1x10 re	1x3.57	1.0	1.4	8.4	152
1x10 rm	7x1.35	1.0	1.4	8.9	160
1x16 rm	7x1.70	1.0	1.4	9.9	226
1x25 rm	7x2.14	1.2	1.4	11.6	333
1x35 rm	7x2.52	1.2	1.4	12.8	436
1x50 rm	19x1.78	1.4	1.4	14.5	570
1x70 rm	19x2.17	1.4	1.4	16.7	780
1x95 rm	19x2.52	1.6	1.5	18.9	1080
1x120 rm	37x2.03	1.6	1.5	20.6	1330
1x150 rm	37x2.25	1.8	1.6	22.8	1620
1x185 rm	37x2.52	2.0	1.7	25.2	2070
1x240 rm	37x2.88	2.2	1.8	28.5	2640
1x300 rm	37x3/34	2.4	1.9	31.5	3240
1x400 rm	61x2.85	2.6	2.0	35.1	4170
1x500 rm	61x3.20	2 8	2.1	38.8	5210

PVC INSULATED PVC SHEATHED MULTI CORE CABLES

NYY-O-J, 0.6/1.0 kv

Application : These cables can be used inside , in cable trench or duct and out door, in power stations, industrial plants and in switch gears if mechanical is not required, or in applications where the cable is not exposed to mechanical damaged.
Specification : IEC 60502-1 , BS-6346 , VDE-0271 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228 ,VDE 0295, ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
2x1.5 re	1x1.38	0.8	1.8	11.4	190
2x1.5 rm	7x0.53	0.8	1.8	12.0	196
2x2.5 re	1x1.78	0.8	1.8	12.4	230
2x2.5 rm	7x0.67	0.8	1.8	12.8	240
2x4 re	1x2.26	1.0	1.8	13.8	284
2x4 rm	7x0.85	1.0	1.8	14.6	300
2x6 re	1x2.78	1.0	1.8	14.8	380
2x6 rm	7x1.04	1.0	1.8	15.6	396
2x10 re	1x3.57	1.0	1.8	16.4	500
2x10 rm	7x1.35	1.0	1.8	17.5	520
2x16 rm	7x1.70	1.0	1.8	19.8	710
2x25 rm	7x2.14	1.2	1.8	23.2	1020
2x35 rm	7x2.52	1.2	1.8	25.2	1300
2x50 rm	19x1.78	1.4	1.8	29.0	1720
2x70 rm	19x2.17	1.4	1.9	33.6	2380

NYY-O-J, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d	mm	mm	mm	Kg/km
3x1.5 re	1x1.38	0.8	1.8	12.0	215
3x1.5 rm	7x0.53	0.8	1.8	12.4	220
3x2.5 re	1x1.78	0.8	1.8	13.0	265
3x2.5 rm	7x0.67	0.8	1.8	13.4	275
3x4 re	1x2.26	1.0	1.8	14.5	350
3x4 rm	7x0.85	1.0	1.8	15.4	370
3x6 re	1x2.78	1.0	1.8	15.6	440
3x6 rm	7x1.04	1.0	1.8	16.6	460
3x10 re	1x3.57	1.0	1.8	17.4	610
3x10 rm	7x1.35	1.0	1.8	18.6	630
3x16 rm	7x1.70	1.0	1.8	21	870
3x25 rm	7x2.14	1.2	1.8	24.6	1260
3x35 rm	7x2.52	1.2	1.8	27	1620
3x50 sm	19x1.83	1.4	1.8	26.8	1690
3x70 sm	19x2.22	1.4	1.9	30.2	2380
3x95 sm	19x2.57	1.6	2.0	33.8	3290
3x120 sm	37x2.08	1.6	2.1	36.5	3920
3x150 sm	37x2.30	1.8	2.2	40.5	4800
3x185 sm	37x2.57	2.0	2.4	46	6000
3x240 sm	37x2.93	2.2	2.6	52	7870
3x300 sm	37x3/34	2.4	2.7	59	9700
3x400 sm	61x2.90	2.6	3.0	65	12410

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	1.2 – 1.0	1.8	26.2	1470
3x35/16 rm	7x2.52 - 7x1.70	1.2 – 1.0	1.8	28	1800
3x50/25 sm	19x1.83 - 7x2.14	1.4 – 1.2	1.8	27.3	1970
3x70/35 sm	19x2.22 - 7x2.52	1.4 – 1.2	1.9	31.0	2750
3x95/50 sm	19x2.57 - 19x1.83	1.6 – 1.4	2.1	34.7	3640
3x120/70 sm	37x2.08 - 19x2.22	1.6 – 1.4	2.2	38.2	4670
3x150/70 sm	37x2.30 - 19x2.22	1.8 – 1.4	2.3	44	5540
3x185/95 sm	37x2.57 - 19x2.57	2.0 – 1.6	2.4	47.4	6980
3x240/120 sm	37x2.93 - 37x2.08	2.2 – 1.6	2.5	53.6	9040
3x300/150 sm	37x3/34 - 37x2.30	2.4 – 1.8	2.7	60	11280
3x400/185 sm	61x2.90 - 37x2.57	2.6 – 2.0	3.0	67	14260

NYY-O-J, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
4x1.5 re	1x1.38	0.8	1.8	13.0	250
4x1.5 rm	7x0.53	0.8	1.8	13.4	260
4x2.5 re	1x1.78	0.8	1.8	14.0	310
4x2.5 rm	7x0.67	0.8	1.8	14.5	325
4x4 re	1x2.26	1.0	1.8	15.6	430
4x4 rm	7x0.85	1.0	1.8	16.6	448
4x6 re	1x2.78	1.0	1.8	16.8	540
4x6 rm	7x1.04	1.0	1.8	18.0	560
4x10 re	1x3.57	1.0	1.8	18.8	740
4x10 rm	7x1.35	1.0	1.8	20.3	760
4x16 rm	7x1.70	1.0	1.8	22.8	1060
4x25 rm	7x2.14	1.2	1.8	25.5	1580
4x35 rm	7x2.52	1.2	1.8	27.8	2060
4x50 sm	19x1.83	1.4	1.9	30.6	2200
4x70 sm	19x2.22	1.4	2.0	34.2	3120
4x95 sm	19x2.57	1.6	2.1	38.4	4180
4x120 sm	37x2.08	1.6	2.2	41.5	5150
4x150 sm	37x2.30	1.8	2.4	45.5	6350
4x185 sm	37x2.57	2.0	2.6	50.5	7900
4x240 sm	37x2.93	2.2	2.8	59	10300
4x300 sm	37x3/34	2.4	3.0	65	12870
4x400 sm	61x2.90	2.6	3.2	75	16320
5x1.5 re	1x1.38	0.8	1.8	13.7	280
5x1.5 rm	7x0.53	0.8	1.8	14.1	296
5x2.5 re	1x1.78	0.8	1.8	14.8	364
5x2.5 rm	7x0.67	0.8	1.8	15.3	378
5x4 re	1x2.26	1.0	1.8	17.2	492
5x4 rm	7x0.85	1.0	1.8	17.9	512
5x6 re	1x2.78	1.0	1.8	18.6	628
5x6 rm	7x1.04	1.0	1.8	19.4	644
5x10 re	1x3.57	1.0	1.8	20.7	892
5x10 rm	7x1.35	1.0	1.8	22.0	922
5x16 rm	7x1.70	1.0	1.8	24.8	1296
5x25 rm	7x2.14	1.2	1.9	29.5	1930
5x35 rm	7x2.52	1.2	2.0	33.0	2550
5x50 rm	19x1.83	1.4	2.2	38.4	3400
5x70 rm	19x2.22	1.4	2.3	44.0	4760

NYY-O-J, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{nn}	mm	mm	mm	Kg/km
5x1.5 re	1x1.38	0.8	1.8	13.6	290
5x1.5 rm	7x0.53	0.8	1.8	14.1	295
6x1.5 re	1x1.38	0.8	1.8	14.5	335
6x1.5 rm	7x0.53	0.8	1.8	15.1	345
7x1.5 re	1x1.38	0.8	1.8	14.5	340
7x1.5 rm	7x0.53	0.8	1.8	15.1	350
10x1.5 re	1x1.38	0.8	1.8	17.8	460
10x1.5 rm	7x0.53	0.8	1.8	18.2	473
12x1.5 re	1x1.38	0.8	1.8	18.3	515
12x1.5 rm	7x0.53	0.8	1.8	18.7	530
16x1.5 re	1x1.38	0.8	1.8	19.6	635
16x1.5 rm	7x0.53	0.8	1.8	20.5	650
19x1.5 re	1x1.38	0.8	1.8	22.6	715
19x1.5 rm	7x0.53	0.8	1.8	21.5	730
20x1.5 re	1x1.38	0.8	1.8	22.4	810
20x1.5 rm	7x0.53	0.8	1.8	23.0	820
24x1.5 re	1x1.38	0.8	1.8	24.0	880
24x1.5 rm	7x0.53	0.8	1.8	24.8	900
27x1.5 re	1x1.38	0.8	1.8	24.2	960
27x1.5 rm	7x0.53	0.8	1.8	25.4	980
30x1.5 re	1x1.38	0.8	1.8	24.8	1030
30x1.5 rm	7x0.53	0.8	1.8	26.2	1050
34x1.5 re	1x1.38	0.8	1.8	26.6	1230
34x1.5 rm	7x0.53	0.8	1.9	28.0	1250
37x1.5 re	1x1.38	0.8	1.9	26.8	1270
37x1.5 rm	7x0.53	0.8	2.0	28.2	1290
48x1.5 re	1x1.38	0.8	2.0	31.5	1660
48x1.5 rm	7x0.53	0.8	2.0	32.0	1680
52x1.5 re	1x1.38	0.8	2.0	33.0	1720
52x1.5 rm	7x0.53	0.8	2.1	33.5	1740
61x1.5 re	1x1.38	0.8	2.1	34.7	1930
61x1.5 rm	7x0.53	0.8	2.1	35.4	1960

NYY-O-J, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d	mm	mm	mm	Kg/km
5x2.5 re	1x1.78	0.8	1.8	14.8	370
5x2.5 rm	7x0.67	0.8	1.8	15.2	375
6x2.5 re	1x1.78	0.8	1.8	16.0	420
6x2.5 rm	7x0.67	0.8	1.8	16.4	430
7x2.5 re	1x1.78	0.8	1.8	16.0	440
7x2.5 rm	7x0.67	0.8	1.8	16.4	450
10x2.5 re	1x1.78	0.8	1.8	19.6	610
10x2.5 rm	7x0.67	0.8	1.8	20.0	620
12x2.5 re	1x1.78	0.8	1.8	20.2	675
12x2.5 rm	7x0.67	0.8	1.8	20.6	690
16x2.5 re	1x1.78	0.8	1.8	22.0	845
16x2.5 rm	7x0.67	0.8	1.8	22.6	860
19x2.5 re	1x1.78	0.8	1.8	23.1	965
19x2.5 rm	7x0.67	0.8	1.8	23.7	980
20x2.5 re	1x1.78	0.8	1.8	25.0	1050
20x2.5 rm	7x0.67	0.8	1.8	25.6	1070
24x2.5 re	1x1.78	0.8	1.8	27.6	1240
24x2.5 rm	7x0.67	0.8	1.8	28.2	1260
27x2.5 re	1x1.78	0.8	1.8	27.6	1310
27x2.5 rm	7x0.67	0.8	1.8	28.2	1330
30x2.5 re	1x1.78	0.8	1.9	28.4	1420
30x2.5 rm	7x0.67	0.8	1.9	29.2	1440
34x2.5 re	1x1.78	0.8	2.0	30.6	1710
34x2.5 rm	7x0.67	0.8	2.0	31.4	1730
37x2.5 re	1x1.78	0.8	2.0	30.6	1760
37x2.5 rm	7x0.67	0.8	2.1	31.6	1780
48x2.5 re	1x1.78	0.8	2.1	35.2	2250
48x2.5 rm	7x0.67	0.8	2.1	36.4	2280
52x2.5 re	1x1.78	0.8	2.1	36.0	2380
52x2.5 rm	7x0.67	0.8	2.2	37.5	2410
61x2.5 re	1x1.78	0.8	2.2	37.2	2730
61x2.5 rm	7x0.67	0.8	2.2	39.4	2760

PVC INSULATED PVC SHEATHED SINGLE AND MULTI CORE SCREENED CABLES

NYCY- NYCWY- NYSY, 0.6/1.0 kv

Application : These cables can be used indoor or outdoor in cable duct, cable trays, conduit or underground location under mechanical stress in power and switching station, local distribution systems, industrial plants and commercial building.
Specification : IEC 60502-1 , VDE 0271 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228 , ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Screen : Concentric plain annealed copper wire applied helically over cble core , tape with open helix of copper band
6) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
1x1.5 /1.5 re	1x1.38	0.8	1.8	7.2	88
1x1.5/1.5 rm	7x0.53	0.8	1.8	7.4	92
1x2.5/2.5 re	1x1.78	0.8	1.8	8.2	115
1x2.5/2.5 rm	7x0.67	0.8	1.8	8.4	118
1x4/4 re	1x2.26	1.0	1.8	9.0	152
1x4/4 rm	7x0.85	1.0	1.8	9.2	156
1x6/6 re	1x2.78	1.0	1.8	10.0	200
1x6/6 rm	7x1.04	1.0	1.8	10.2	206
1x10/10 re	1x3.57	1.0	1.8	10.8	280
1x10/10 rm	7x1.35	1.0	1.8	11.2	286
1x16/16 rm	7x1.70	1.0	1.8	13.0	420
1x25/25 rm	7x2.14	1.2	1.8	14.6	625
1x35/35 rm	7x2.52	1.2	1.8	15.8	830
1x50/16 rm	19x1.78	1.4	1.81	19.6	860
1x70/16 rm	19x2.17	1.4	1.8	21.6	1100
1x95/16 rm	19x2.52	1.6	.8	24.2	1380
1x120/16 rm	37x2.03	1.6	1.8	25	1630
1x150/25 rm	37x2.25	1.8	1.8	27.3	2020
1x185/25 rm	37x2.52	2.0	1.9	29.7	2450
1x240/25 rm	37x2.88	2.2	2.1	33.2	3040
1x300/25 rm	37x3/34	2.4	2.2	37.2	3670

NYCY , NYCWY , NYSY , 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{nn}	mm	mm	mm	Kg/km
2x1.5 /1.5 re	1x1.38	0.8	1.8	11.8	205
2x1.5/1.5 rm	7x0.53	0.8	1.8	12.0	212
2x2.5/2.5 re	1x1.78	0.8	1.8	13.4	268
2x2.5/2.5 rm	7x0.67	0.8	1.8	13.6	275
2x4/4 re	1x2.26	1.0	1.8	14.6	350
2x4/4 rm	7x0.85	1.0	1.8	14.8	358
2x6/6 re	1x2.78	1.0	1.8	16.5	440
2x6/6 rm	7x1.04	1.0	1.8	17.0	448
2x10/10 rm	1x3.57	1.0	1.8	18	600
2x10/10 re	7x1.35	1.0	1.8	18.6	614
2x16/16 rm	7x1.70	1.0	1.8	21.8	890
2x25/25 rm	7x2.14	1.2	1.8	26.2	1380
2x35/35 rm	7x2.52	1.2	1.8	28.5	1770
3x1.5 /1.5 re	1x1.38	0.8	1.8	12.2	225
3x1.5/1.5 rm	7x0.53	0.8	1.8	12.6	230
3x2.5/2.5 re	1x1.78	0.8	1.8	14.0	296
3x2.5/2.5 rm	7x0.67	0.8	1.8	14.5	310
3x4/4 re	1x2.26	1.0	1.8	15.4	394
3x4/4 rm	7x0.85	1.0	1.8	16.0	415
3x6/6 re	1x2.78	1.0	1.8	17.2	500
3x6/6 rm	7x1.04	1.0	1.8	17.8	520
3x10/10 re	1x3.57	1.0	1.8	19.0	690
3x10/10 rm	7x1.35	1.0	1.8	19.6	710
3x16/16 rm	7x1.70	1.0	1.8	23.6	1090
3x25/25 rm	7x2.14	1.2	1.8	27.6	1620
3x35/35 rm	7x2.52	1.2	1.9	30.0	2080
4x1.5 /1.5 re	1x1.38	0.8	1.8	13.0	260
4x1.5/1.5 rm	7x0.53	0.8	1.8	13.4	265
4x2.5/2.5 re	1x1.78	0.8	1.8	14.8	345
4x2.5/2.5 rm	7x0.67	0.8	1.8	15.2	355
4x4/4 re	1x2.26	1.0	1.8	16.5	460
4x4/4 rm	7x0.85	1.0	1.8	17.0	475
4x6/6 re	1x2.78	1.0	1.8	18.4	590
4x6/6 rm	7x1.04	1.0	1.8	19.0	600
4x10/10 re	1x3.57	1.0	1.8	20.2	825
4x10/10 rm	7x1.35	1.0	1.8	20.8	840
4x16/16 rm	7x1.70	1.0	1.8	25.4	1310
4x25/25 rm	7x2.14	1.2	1.9	29.5	1960
4x35/35 rm	7x2.52	1.2	2.0	33.0	2595

NYCY , NYCWY , NYSY , 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
5x1.5 /1.5 re	1x1.38	0.8	1.8	14.8	310
7x1.5/1.5 re	1x1.38	0.8	1.8	15.6	380
8x1.5/1.5 re	1x1.38	0.8	1.8	16.8	410
10x1.5/2.5 re	1x1.38	0.8	1.8	19.2	445
12x1.5/2.5 re	1x1.38	0.8	1.8	19.6	570
14x1.5/2.5 re	1x1.38	0.8	1.8	20.4	630
16x1.5/4.0 re	1x1.38	0.8	1.8	20.8	710
19x1.5/4.0 re	1x1.38	0.8	1.8	22.5	840
24x1.5/6 re	1x1.38	0.8	1.8	27.0	1060
30x1.5/6 re	1x1.38	0.8	1.8	27.2	1220
37x1.5/10 re	1x1.38	0.8	1.8	28.5	1320
40x1.5/10 re	1x1.38	0.8	2.0	30.5	1530
52x1.5/10 re	1x1.38	0.8	2.1	35.6	1880
61x1.5/10 re	1x1.38	0.8	2.2	37.8	2230
5x1.5 /1.5 rm	7x0.53	0.8	1.8	14.8	320
7x1.5/1.5 rm	7x0.53	0.8	1.8	15.6	390
8x1.5/1.5 rm	7x0.53	0.8	1.8	17.0	420
10x1.5/2.5 rm	7x0.53	0.8	1.8	19.2	455
12x1.5/2.5 rm	7x0.53	0.8	1.8	20.0	580
14x1.5/2.5 rm	7x0.53	0.8	1.8	20.5	645
16x1.5/4.0 rm	7x0.53	0.8	1.8	21.0	730
19x1.5/4.0 rm	7x0.53	0.8	1.8	22.8	850
24x1.5/6 rm	7x0.53	0.8	1.8	27.5	1070
30x1.5/6 rm	7x0.53	0.8	1.8	28.8	1232
37x1.5/10 rm	7x0.53	0.8	1.8	29.0	1335
40x1.5/10 rm	7x0.53	0.8	2.0	30.6	1544
52x1.5/10 rm	7x0.53	0.8	2.1	36.0	1892
61x1.5/10 rm	7x0.53	0.8	2.2	38.2	2246

NYCY- NYCWY- NYSY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
5x2.5 /2.5 re	1x1.78	0.8	1.8	16.2	390
7x2.5/2.5 re	1x1.78	0.8	1.8	17.0	490
8x2.5/2.5 re	1x1.78	0.8	1.8	18.4	530
10x2.5/4 re	1x1.78	0.8	1.8	20.4	670
12x2.5/4 re	1x1.78	0.8	1.8	21.0	750
14x2.5/4 re	1x1.78	0.8	1.8	22.8	880
16x2.5/6 re	1x1.78	0.8	1.8	24.2	990
19x2.5/6 re	1x1.78	0.8	1.8	25.2	1150
24x2.5/10 re	1x1.78	0.8	1.9	29.5	1180
30x2.5/10 re	1x1.78	0.8	2.0	32.0	1640
37x2.5/10 re	1x1.78	0.8	2.0	31.5	1800
40x2.5/10 re	1x1.78	0.8	2.1	33.8	2070
52x2.5/10 re	1x1.78	0.8	2.2	39.2	2630
61x2.5/10 re	1x1.78	0.8	2.3	41.2	2970
5x2.5 /2.5 rm	7x0.67	0.8	1.8	17.2	395
7x2.5/2.5 rm	7x0.67	0.8	1.8	17.6	500
8x2.5/2.5 rm	7x0.67	0.8	1.8	18.6	540
10x2.5/4 rm	7x0.67	0.8	1.8	20.6	685
12x2.5/4 rm	7x0.67	0.8	1.8	21.4	768
14x2.5/4 rm	7x0.67	0.8	1.8	23.2	894
16x2.5/6 rm	7x0.67	0.8	1.8	24.6	1010
19x2.5/6 rm	7x0.67	0.8	1.8	25.6	1170
24x2.5/10 rm	7x0.67	0.8	1.9	29.8	1195
30x2.5/10 rm	7x0.67	0.8	2.0	32.5	1654
37x2.5/10 rm	7x0.67	0.8	2.1	31.8	1820
40x2.5/10 rm	7x0.67	0.8	2.2	34.0	2085
52x2.5/10 rm	7x0.67	0.8	2.2	39.6	2646
61x2.5/10 rm	7x0.67	0.8	2.3	41.4	2985

PVC INSULATED PVC SHEATHED SINGLE AND MULTI CORE ARMOURED CABLES

NYRY, 0.6/1.0 kv

Application: These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or underground locations under mechanical stress at power and switching station, local distribution systems, industrial plants and commercial buildings.

Specification: IEC 60502-1, VDE 0271, ISIRI 3569-1

Construction:

1) Conductor: Soft annealed copper as per class 1 or 2 of IEC 60228, VDE 0295, ISIRI 3084
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering: Extruded PVC compatible with the operating temperature of the conductor. In sect or cables the core covered with one or two layers of polypropylene tape.
5) Armour: Aluminum wire armour for single core and Galvanized steel wire armour for multi core
6) Outer sheath: Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:

1) Temperature: -25°C to +80°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 0.6/1.0 kv
4) Conductor resistance: As per class 1 or 2 of IEC 60228, VDE 0295 or ISIRI 3084
5) Test voltage: 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant: Acc. IEC 60332-1

* NYCYRY code can be supplied on request.

SINGLE CORE

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
1x4 re	1x2.26	1.0	0.9	1.8	12.2	210
1x4 rm	7x0.85	1.0	0.9	1.8	12.4	220
1x6 re	1x2.78	1.0	0.9	1.8	12.6	242
1x6 rm	7x1.04	1.0	0.9	1.8	13.0	250
1x10 re	1x3.57	1.0	0.9	1.8	13.4	290
1x10 rm	7x1.35	1.0	0.9	1.8	14.0	305
1x16 rm	7x1.70	1.0	0.9	1.8	14.6	380
1x25 rm	7x2.14	1.2	1.2	1.8	16.8	540
1x35 rm	7x2.52	1.2	1.2	1.8	18.1	660
1x50 rm	19x1.78	1.4	1.2	1.8	19.7	820
1x70 rm	19x2.17	1.4	1.2	1.8	21.7	1080
1x95 rm	19x2.52	1.6	1.6	1.8	24.2	1420
1x120 rm	37x2.03	1.6	1.6	1.8	25.6	1690
1x150 rm	37x2.25	1.8	1.6	1.8	27.6	2030
1x185 rm	37x2.52	2.0	1.6	1.9	30.4	2470
1x240 rm	37x2.88	2.2	2.0	2.1	34.5	3210
1x300 rm	37x3/34	2.4	2.0	2.2	37.7	3930

MULTI CORE , NYRY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
2x1.5 re	1x1.38	0.8	0.9	1.8	13.8	380
2x1.5 rm	7x0.53	0.8	0.9	1.8	14.2	390
2x2.5 re	1x1.78	0.8	0.9	1.8	14.8	460
2x2.5 rm	7x0.67	0.8	0.9	1.8	15.2	470
2x4 re	1x2.26	1.0	1.2	1.8	17.4	630
2x4 rm	7x0.85	1.0	1.2	1.8	17.8	640
2x6 re	1x2.78	1.0	1.2	1.8	18.4	735
2x6 rm	7x1.04	1.0	1.2	1.8	18.8	750
2x10 re	1x3.57	1.0	1.2	1.8	20.2	910
2x10 rm	7x1.35	1.0	1.2	1.8	20.6	930
2x16 rm	7x1.70	1.0	1.6	1.8	23.5	1310
2x25 rm	7x2.14	1.2	1.6	1.8	27.0	1740
2x35 rm	7x2.52	1.2	1.6	1.9	29.5	2100
2x50 rm	19x1.78	1.4	1.6	2.1	33.0	2640
2x70 rm	19x2.17	1.4	2.0	2.3	38.2	3710
3x1.5 re	1x1.38	0.8	0.9	0.8	14.4	410
3x1.5 rm	7x0.53	0.8	0.9	1.8	14.8	420
3x2.5 re	1x1.78	0.8	0.9	1.8	15.0	465
3x2.5 rm	7x0.67	0.8	0.9	1.8	15.3	480
3x4 re	1x2.26	1.0	1.2	1.8	18.0	698
3x4 rm	7x0.85	1.0	1.2	1.8	18.4	710
3x6 re	1x2.78	1.0	1.2	1.8	19.1	820
3x6 rm	7x1.04	1.0	1.2	1.8	19.5	840
3x10 re	1x3.57	1.0	1.6	1.8	20.4	1120
3x10 rm	7x1.35	1.0	1.6	1.8	22.0	1190
3x16 rm	7x1.70	1.0	1.6	1.8	24..0	1500
3x25 rm	7x2.14	1.2	1.6	1.9	28.6	2040
3x35 rm	7x2.52	1.2	1.6	2.0	30.8	2460
3x50 sm	19x1.83	1.4	1.6	2.0	34	2750
3x70 sm	19x2.22	1.4	2.0	2.2	37.5	3820
3x95 sm	19x2.57	1.6	2.0	2.3	40	4960
3x120 sm	37x2.08	1.6	2.5	2.5	45	6120
3x150 sm	37x2.30	1.8	2.5	2.6	49.5	7210
3x185 sm	37x2.57	2.0	2.5	2.7	54.5	8730
3x240 sm	37x2.93	2.2	2.5	2.9	61	10910
3x300 sm	37x3/34	2.4	2.5	3.2	67.5	13120
3x400 sm	61x2.92	2.6	3.15	3.4	76.5	17100

MULTI CORE , NYRY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. Weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	1.2 - 1.0	1.6	1.9	29.6	2280
3x35/16 rm	7x2.52 - 7x1.70	1.2 - 1.0	1.6	2.0	32	2680
3x50/25 sm	19x1.83 - 7x2.14	1.4 - 1.2	2.0	2.0	35.2	3075
3x70/35 sm	19x2.22 - 7x2.52	1.4 - 1.2	2.0	2.1	38.5	4190
3x95/50 sm	19x2.57 - 19x1.83	1.6 - 1.4	2.0	2.3	43.0	5360
3x120/70 sm	37x2.08 - 19x2.22	1.6 - 1.4	2.0	2.4	47.0	6480
3x150/70 sm	37x2.30 - 19x2.22	1.8 - 1.4	2.5	2.7	52.0	8040
3x185/95 sm	37x2.57 - 19x2.57	2.0 - 1.6	2.5	3.0	57.8	9740
3x240/120 sm	37x2.93 - 37x2.08	2.2 - 1.6	2.5	3.2	64.0	12200
3x300/150 sm	37x3/34 - 37x2.30	2.4 - 1.8	2.5	3.5	70.0	14800
3x400/185 sm	61x2.90 - 37x2.57	2.6 - 2.0	3.15	3.7	79.4	19110

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. Weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x1.5 re	1x1.38	0.8	0.9	1.8	15.0	410
4x1.5 rm	7x0.53	0.8	0.9	1.8	15.5	430
4x2.5 re	1x1.78	0.8	0.9	1.8	15.8	480
4x2.5 rm	7x0.67	0.8	0.9	1.8	16.4	510
4x4 re	1x2.26	1.0	1.2	1.8	18.6	720
4x4 rm	7x0.85	1.0	1.2	1.8	19.5	790
4x6 re	1x2.78	1.0	1.2	1.8	19.8	870
4x6 rm	7x1.04	1.0	1.2	1.8	20.7	920
4x10 re	1x3.57	1.0	1.2	1.8	21.8	1050
4x10 rm	7x1.35	1.0	1.2	1.8	23.2	1200
4x16 rm	7x1.70	1.0	1.6	1.8	26.4	1770
4x25 rm	7x2.14	1.2	1.6	1.8	29.8	2380
4x35 rm	7x2.52	1.2	1.6	1.9	32.7	3250
4x50 sm	19x1.83	1.4	2.0	2.1	37.0	3315
4x70 sm	19x2.22	1.4	2.0	2.2	40.2	4590
4x95 sm	19x2.57	1.6	2.5	2.4	45.5	5860
4x120 sm	37x2.08	1.6	2.5	2.6	49.2	7050
4x150 sm	37x2.30	1.8	2.5	2.8	53.5	8950
4x185 sm	37x2.57	2.0	2.5	3.0	59.6	10760
4x240 sm	37x2.93	2.2	2.5	3.2	66.6	13580
4x300 sm	37x3/34	2.4	3.15	3.4	73.4	16450
4x400 sm	61x2.92	2.6	3.15	3.6	85.2	21350

MULTI CORE , NYRY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. Weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
5x1.5 re	1x1.38	0.8	1.2	1.8	16.4	550
7x1.5 re	1x1.38	0.8	1.2	1.8	17.6	670
8x1.5 re	1x1.38	0.8	1.2	1.8	20.0	810
10x1.5 re	1x1.38	0.8	1.2	1.8	20.2	850
12x1.5 re	1x1.38	0.8	1.6	1.8	21.6	1060
14x1.5 re	1x1.38	0.8	1.6	1.8	22.4	1130
16x1.5 re	1x1.38	0.8	1.6	1.8	23.4	1230
19x1.5 re	1x1.38	0.8	1.6	1.8	24.2	1340
24x1.5 re	1x1.38	0.8	1.6	1.9	27.4	1640
30x1.5 re	1x1.38	0.8	1.6	2.0	28.6	1810
37x1.5 re	1x1.38	0.8	1.6	2.0	30.5	2080
40x1.5 re	1x1.38	0.8	2.0	2.1	33.2	2500
52x1.5 re	1x1.38	0.8	2.0	2.2	36.2	2920
61x1.5 re	1x1.38	0.8	2.0	2.3	38.0	3170
5x1.5 rm	7x0.53	0.8	1.2	1.8	16.6	570
7x1.5 rm	7x0.53	0.8	1.2	1.8	18.0	690
8x1.5 rm	7x0.53	0.8	1.2	1.8	20.6	840
10x1.5 rm	7x0.53	0.8	1.2	1.8	21.0	880
12x1.5 rm	7x0.53	0.8	1.6	1.8	22.5	1100
14x1.5 rm	7x0.53	0.8	1.6	1.8	23.2	1170
16x1.5 rm	7x0.53	0.8	1.6	1.8	24.2	1270
19x1.5 rm	7x0.53	0.8	1.6	1.8	25.0	1380
24x1.5 rm	7x0.53	0.8	1.6	1.9	28.4	1680
30x1.5 rm	7x0.53	0.8	1.6	2.0	29.8	1850
37x1.5 rm	7x0.53	0.8	1.6	2.0	31.8	2130
40x1.5 rm	7x0.53	0.8	2.0	2.1	34.4	2560
52x1.5 rm	7x0.53	0.8	2.0	2.2	37.4	2980
61x1.5 rm	7x0.53	0.8	2.0	2.3	39.5	3240

MULTI CORE , NYRY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. Weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
5x2.5 re	1x1.78	0.8	1.2	1.8	17.6	700
7x2.5 re	1x1.78	0.8	1.2	1.8	18.5	810
8x2.5 re	1x1.78	0.8	1.2	1.8	22.0	1130
10x2.5 re	1x1.78	0.8	1.6	1.8	22.4	1180
12x2.5 re	1x1.78	0.8	1.6	1.8	23.0	1270
14x2.5 re	1x1.78	0.8	1.6	1.8	24.0	1400
16x2.5 re	1x1.78	0.8	1.6	1.8	25.0	1360
19x2.5 re	1x1.78	0.8	1.6	1.8	25.2	1560
24x2.5 re	1x1.78	0.8	1.6	2.0	28.8	1910
30x2.5 re	1x1.78	0.8	1.6	2.1	31.2	2270
37x2.5 re	1x1.78	0.8	2.0	2.1	34.6	2910
40x2.5 re	1x1.78	0.8	2.0	2.2	36.6	3100
52x2.5 re	1x1.78	0.8	2.0	2.3	40.2	3760
61x2.5 re	1x1.78	0.8	2.0	2.4	42.0	4170
5x2.5 rm	7x0.67	0.8	1.2	1.8	18.4	720
7x2.5 rm	7x0.67	0.8	1.2	1.8	19.5	830
8x2.5 rm	7x0.67	0.8	1.2	1.8	23.0	1150
10x2.5 rm	7x0.67	0.8	1.6	1.8	23.4	1200
12x2.5 rm	7x0.67	0.8	1.6	1.8	24.0	1290
14x2.5 rm	7x0.67	0.8	1.6	1.8	25.2	1430
16x2.5 rm	7x0.67	0.8	1.6	1.8	26.2	1390
19x2.5 rm	7x0.67	0.8	1.6	1.8	26.4	1600
24x2.5 rm	7x0.67	0.8	1.6	2.0	30.0	1950
30x2.5 rm	7x0.67	0.8	1.6	2.1	32.7	2310
37x2.5 rm	7x0.67	0.8	2.0	2.1	35.8	2970
40x2.5 rm	7x0.67	0.8	2.0	2.2	38.0	3190
52x2.5 rm	7x0.67	0.8	2.0	2.3	41.6	3860
61x2.5 rm	7x0.67	0.8	2.0	2.4	43.8	4270

PVC INSULATED PVC SHEATHED MULTI CORE TAPE ARMOURED CABLES

NYBY, 0.6/1.0 kv

Application : These cables can be used indoor or outdoor in cable duct, cable trays, conduit or underground location under mechanical stress in power and switching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , VDE-0271 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Armour : Galvanized double steel tape armour
6) Outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	mm	Kg/km
2x1.5 re	1x1.38	0.8	0.2	1.8	13.0	270
2x1.5 rm	7x0.53	0.8	0.2	1.8	13.2	275
2x2.5 re	1x1.78	0.8	0.2	1.8	14.0	315
2x2.5 rm	7x0.67	0.8	0.2	1.8	14.4	320
2x4 re	1x2.26	1.0	0.2	1.8	15.5	400
2x4 rm	7x0.85	1.0	0.2	1.8	15.8	410
2x6 re	1x2.78	1.0	0.2	1.8	16.6	490
2x6 rm	7x1.04	1.0	0.2	1.8	17.0	505
2x10 re	1x3.57	1.0	0.2	1.8	18.0	610
2x10 rm	7x1.35	1.0	0.2	1.8	18.5	630
2x16 rm	7x1.70	1.0	0.2	1.8	20.5	815
2x25 rm	7x2.14	1.2	0.2	1.8	23.5	1115

NYBY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{nn}	mm	mm	mm	mm	Kg/km
3x1.5 re	1x1.38	0.8	0.2	1.8	13.5	300
3x1.5 rm	7x0.53	0.8	0.2	1.8	13.8	310
3x2.5 re	1x1.78	0.8	0.2	1.8	14.5	350
3x2.5 rm	7x0.67	0.8	0.2	1.8	14.8	360
3x4 re	1x2.26	1.0	0.2	1.8	16.0	455
3x4 rm	7x0.85	1.0	0.2	1.8	16.4	470
3x6 re	1x2.78	1.0	0.2	1.8	17.6	570
3x6 rm	7x1.04	1.0	0.2	1.8	18.0	585
3x10 re	1x3.57	1.0	0.2	1.8	19.1	735
3x10 rm	7x1.35	1.0	0.2	1.8	19.5	750
3x16 rm	7x1.70	1.0	0.2	1.8	21.5	980
3x25 rm	7x2.14	1.2	0.2	1.8	25.0	1380
3x35 rm	7x2.52	1.2	0.2	1.8	27.5	1750
3x50 sm	19x1.83	1.4	0.2	2.0	29.5	2090
3x70 sm	19x2.22	1.4	0.2	2.1	32.0	2770
3x95 sm	19x2.57	1.6	0.5	2.3	37.5	4070
3x120 sm	37x2.08	1.6	0.5	2.4	40.5	4860
3x150 sm	37x2.30	1.8	0.5	2.5	45.0	5900
3x185 sm	37x2.57	2.0	0.5	2.7	49.5	7280
3x240 sm	37x2.93	2.2	0.5	2.9	55.5	9270
3x300 sm	37x3/34	2.4	0.5	3.1	61.5	11350

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{nn}	mm	mm	mm	mm	kg/km
3x25/16 rm	7x2.14 - 7x1.70	1.2 - 1.0	0.2	1.8	26.0	1580
3x35/16 rm	7x2.52 - 7x1.70	1.2 - 1.0	0.2	1.8	28.0	1930
3x50/25 sm	19x1.83 - 7x2.14	1.4 - 1.2	0.2	2.0	33.0	2440
3x70/35 sm	19x2.22 - 7x2.52	1.4 - 1.2	0.5	2.1	37.0	3580
3x95/50 sm	19x2.57 - 19x1.83	1.6 - 1.4	0.5	2.3	42.5	4760
3x120/70 sm	37x2.08 - 19x2.22	1.6 - 1.4	0.5	2.4	46.0	5760
3x150/70 sm	37x2.30 - 19x2.22	1.8 - 1.4	0.5	2.6	51.0	6850
3x185/95 sm	37x2.57 - 19x2.57	2.0 - 1.6	0.5	2.8	55.5	8470
3x240/120 sm	37x2.93 - 37x2.08	2.2 - 1.6	0.5	3.1	63.5	10780
3x300/150 sm	37x3/34 - 37x2.30	2.4 - 1.8	0.5	3.3	71.5	13350

NYBY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	Outer sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x1.5 re	1x1.38	0.8	0.2	1.8	14.0	340
4x1.5 rm	7x0.53	0.8	0.2	1.8	14.2	345
4x2.5 re	1x1.78	0.8	0.2	1.8	15.0	405
4x2.5 rm	7x0.67	0.8	0.2	1.8	15.4	410
4x4 re	1x2.26	1.0	0.2	1.8	17.0	530
4x4 rm	7x0.85	1.0	0.2	1.8	17.4	540
4x6 re	1x2.78	1.0	0.2	1.8	19.0	695
4x6 rm	7x1.04	1.0	0.2	1.8	19.5	680
4x10 re	1x3.57	1.0	0.2	1.8	20.2	870
4x10 rm	7x1.35	1.0	0.2	1.8	21.0	890
4x16 rm	7x1.70	1.0	0.2	1.8	23.0	1180
4x25 rm	7x2.14	1.2	0.2	1.8	27.0	1700
4x35 rm	7x2.52	1.2	0.2	2.0	32.6	2340
4x50 sm	19x1.83	1.4	0.2	2.1	33.0	2710
4x70 sm	19x2.22	1.4	0.5	2.2	37.0	3940
4x95 sm	19x2.57	1.6	0.5	2.4	42.5	5270
4x120 sm	37x2.08	1.6	0.5	2.5	46.0	6330
4x150 sm	37x2.30	1.8	0.5	2.7	51.5	7700
4x185 sm	37x2.57	2.0	0.5	2.9	56.5	9495
4x240 sm	37x2.93	2.2	0.5	3.1	64.0	12150
4x300 sm	37x3/34	2.4	0.5	3.3	72.0	15050
5x1.5 re	1x1.38	0.8	0.2	1.8	14.6	360
7x1.5 re	1x1.38	0.8	0.2	1.8	15.8	430
8x1.5 re	1x1.38	0.8	0.2	1.8	18.4	535
10x1.5 re	1x1.38	0.8	0.2	1.8	18.8	570
12x1.5 re	1x1.38	0.8	0.2	1.8	19.4	630
14x1.5 re	1x1.38	0.8	0.2	1.8	20.2	680
16x1.5 re	1x1.38	0.8	0.2	1.8	21.0	750
19x1.5 re	1x1.38	0.8	0.2	1.8	21.6	850
24x1.5 re	1x1.38	0.8	0.2	1.8	25.0	1065
30x1.5 re	1x1.38	0.8	0.2	1.8	26.2	1190
37x1.5 re	1x1.38	0.8	0.2	1.8	28.4	1450
40x1.5 re	1x1.38	0.8	0.2	2.0	30.0	1560
52x1.5 re	1x1.38	0.8	0.2	2.1	32.6	1840
61x1.5 re	1x1.38	0.8	0.5	2.2	35.0	2380

Fixed Installation Cables

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
5x1.5 rm	7x0.53	0.8	0.2	1.8	15.0	370
7x1.5 rm	7x0.53	0.8	0.2	1.8	16.4	440
8x1.5 rm	7x0.53	0.8	0.2	1.8	19.0	550
10x1.5 rm	7x0.53	0.8	0.2	1.8	19.5	584
12x1.5 rm	7x0.53	0.8	0.2	1.8	20.2	642
14x1.5 rm	7x0.53	0.8	0.2	1.8	21.0	700
16x1.5 rm	7x0.53	0.8	0.2	1.8	21.7	770
19x1.5 rm	7x0.53	0.8	0.2	1.8	22.6	870
24x1.5 rm	7x0.53	0.8	0.2	1.8	26.0	1090
30x1.5 rm	7x0.53	0.8	0.2	1.8	27.2	1220
37x1.5 rm	7x0.53	0.8	0.2	1.8	29.6	1480
40x1.5 rm	7x0.53	0.8	0.2	2.0	31.2	1590
52x1.5 rm	7x0.53	0.8	0.2	2.1	34.0	1900
61x1.5 rm	7x0.53	0.8	0.5	2.2	36.5	2450
5x2.5 re	1x1.78	0.8	0.2	1.8	16.2	440
7x2.5 re	1x1.78	0.8	0.2	1.8	17.2	540
8x2.5 re	1x1.78	0.8	0.2	1.8	19.6	665
10x2.5 re	1x1.78	0.8	0.2	1.8	20.6	715
12x2.5 re	1x1.78	0.8	0.2	1.8	21.2	800
14x2.5 re	1x1.78	0.8	0.2	1.8	22.2	900
16x2.5 re	1x1.78	0.8	0.2	1.8	24.2	980
19x2.5 re	1x1.78	0.8	0.2	1.8	24.4	1060
24x2.5 re	1x1.78	0.8	0.2	1.9	28.2	1330
30x2.5 re	1x1.78	0.8	0.2	2.0	30.0	1615
37x2.5 re	1x1.78	0.8	0.2	2.1	32.0	1915
40x2.5 re	1x1.78	0.8	0.5	2.1	34.4	2410
52x2.5 re	1x1.78	0.8	0.5	2.2	37.4	2920
61x2.5 re	1x1.78	0.8	0.5	2.3	39.2	3250
5x2.5 rm	7x0.67	0.8	0.2	1.8	16.6	450
7x2.5 rm	7x0.67	0.8	0.2	1.8	17.6	550
8x2.5 rm	7x0.67	0.8	0.2	1.8	20.2	675
10x2.5 rm	7x0.67	0.8	0.2	1.8	21.2	725
12x2.5 rm	7x0.67	0.8	0.2	1.8	21.8	810
14x2.5 rm	7x0.67	0.8	0.2	1.8	22.7	915
16x2.5 rm	7x0.67	0.8	0.2	1.8	24.8	995
19x2.5 rm	7x0.67	0.8	0.2	1.9	25.0	1080
24x2.5 rm	7x0.67	0.8	0.2	2.0	28.8	1350
30x2.5 rm	7x0.67	0.8	0.2	2.1	30.5	1640
37x2.5 rm	7x0.67	0.8	0.2	2.1	32.6	1940
40x2.5 rm	7x0.67	0.8	0.5	2.1	35.2	2440
52x2.5 rm	7x0.67	0.8	0.5	2.2	38.4	2960
61x2.5 rm	7x0.67	0.8	0.5	2.3	40.6	3320

Fixed installation Cables

Cross linked polyethylene - XLPE insulation
600/1000 V

CU/XLPE/PVC (N2XY-O-J)
CU/XLPE/PVC/CWS,CTS/PVC (N2XCY , N2XSY)
CU/XLPE/PVC/SWA/PVC (N2XRY)
CU/XLPE/PVC/DTA/PVC (N2XBY)

SHAHIN CABLE

XLPE INSULATED PVC SHEATHED SINGLE CORE CABLES

N2XY, 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable duct or tray in power and switching stations, industrial plant and commercial building.
Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper solid as per class 1 or stranded as per class2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour
4) outer sheath : Polyvinyl chloride -PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Single core

Size	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{nom}	mm	mm	mm	Kg/km
1x4 re	1x2.26	0.7	1.4	6.5	76
1x4 rm	7x0.85	0.7	1.4	6.8	80
1x6 re	1x2.78	0.7	1.4	7.0	98
1x6 rm	7x1.04	0.7	1.4	7.3	105
1x10 re	1x3.57	0.7	1.4	7.8	140
1x10 rm	7x1.35	0.7	1.4	8.3	145
1x16 rm	7x1.70	0.7	1.4	9.3	210
1x25 rm	7x2.14	0.9	1.4	11.0	310
1x35 rm	7x2.52	0.9	1.4	12.2	410
1x50 rm	19x1.78	1.0	1.4	13.7	530
1x70 rm	19x2.17	1.1	1.4	16.1	770
1x95 rm	19x2.52	1.1	1.5	17.8	1010
1x120 rm	37x2.03	1.2	1.5	19.8	1270
1x150 rm	37x2.25	1.4	1.6	21.8	1550
1x185 rm	37x2.52	1.6	1.6	24.2	1940
1x240 rm	37x2.88	1.7	1.7	27.4	2510
1x300 rm	37x3.34	1.8	1.8	30	3110
1x400 rm	61x2.85	2.0	1.9	33.5	3980
1x500 rm	61x3.20	2.2	2.1	37.4	5000

XLPE INSULATED PVC SHEATHED MULTI CORE CABLES

N2XY, 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable duct or tray in power and switching stations, industrial plant and commercial building.
Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper stranded(round or sector) as per class 2 of IEC 60228 , ISIRI 3084
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) outer sheath : Polyvinyl chloride -PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x1.5 re	1x1.38	0.7	1.8	11.2	150
2x1.5 rm	7x0.53	0.7	1.8	11.6	160
2x2.5 re	1x1.78	0.7	1.8	12.0	180
2x2.5 rm	7x0.67	0.7	1.8	12.4	192
2x4 re	1x2.26	0.7	1.8	12.9	262
2x4 rm	7x0.85	0.7	1.8	13.6	270
2x6 re	1x2.78	0.7	1.8	14.0	330
2x6 rm	7x1.04	0.7	1.8	14.6	340
2x10 re	1x3.57	0.7	1.8	15.5	440
2x10 rm	7x1.35	0.7	1.8	16.5	460
2x16 rm	7x1.70	0.7	1.8	18.5	650
2x25 rm	7x2.14	0.9	1.8	22	920
2x35 rm	7x2.52	0.9	1.8	24	1190
2x50 rm	19x1.78	1.0	1.8	27.4	1610
2x70 rm	19x2.17	1.1	2.1	32.6	2300

N2XY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
3x1.5 re	1x1.38	0.7	1.8	11.6	155
3x1.5 rm	7x0.53	0.7	1.8	12.1	170
3x2.5 re	1x1.78	0.7	1.8	12.5	200
3x2.5 rm	7x0.67	0.7	1.8	12.9	210
3x4 re	1x2.26	0.7	1.8	12.0	280
3x4 rm	7x0.85	0.7	1.8	14.2	320
3x6 re	1x2.78	0.7	1.8	14.6	390
3x6 rm	7x1.04	0.7	1.8	15.6	410
3x10 re	1x3.57	0.7	1.8	16.4	540
3x10 rm	7x1.35	0.7	1.8	17.4	560
3x16 rm	7x1.70	0.7	1.8	19.6	780
3x25 rm	7x2.14	0.9	1.8	23.4	1140
3x35 rm	7x2.52	0.9	1.8	26	1520
3x50 sm	19x1.83	1.0	1.8	25.1	1580
3x70 sm	19x2.22	1.1	1.9	28.6	2270
3x95 sm	19x2.57	1.1	2.0	31.7	3010
3x120 sm	37x2.08	1.2	2.1	35.2	3750
3x150 sm	37x2.30	1.4	2.2	39.0	4600
3x185 sm	37x2.57	1.6	2.3	43.4	5730
3x240 sm	37x2.93	1.7	2.5	49.2	7620
3x300 sm	37x3.34	1.8	2.7	55.4	9290
3x400 sm	61x2.90	2.0	2.9	62	11860

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diamete	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	0.9 - 0.7	1.8	24.2	1320
3x35/16 rm	7x2.52 - 7x1.70	0.9 - 0.7	1.8	26.2	1660
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	1.8	26.2	1834
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	1.9	29.4	2594
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 1.0	2.0	32.5	3480
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	2.1	36.2	4450
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	2.3	41.0	5320
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	2.5	44.6	6670
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	2.6	50.4	8640
3x300/150 sm	37x3.34 - 37x2.30	1.8 - 1.4	2.8	57.4	10780
3x400/185 sm	61x2.90 - 37x2.57	2.0 - 1.6	3.0	65.2	13684

N2XY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
4x1.5 re	1x1.38	0.7	1.8	12.4	190
4x1.5 rm	7x0.53	0.7	1.8	12.9	200
4x2.5 re	1x1.78	0.7	1.8	13.3	245
4x2.5 rm	7x0.67	0.7	1.8	13.8	260
4x4 re	1x2.26	0.7	1.8	14.5	320
4x4 rm	7x0.85	0.7	1.8	15.2	370
4x6 re	1x2.78	0.7	1.8	15.7	460
4x6 rm	7x1.04	0.7	1.8	16.5	480
4x10 re	1x3.57	0.7	1.8	17.6	650
4x10 rm	7x1.35	0.7	1.8	18.8	670
4x16 rm	7x1.70	0.7	1.8	21.2	980
4x25 rm	7x2.14	0.9	1.8	25.2	1430
4x35 rm	7x2.52	0.9	1.8	28.0	1900
4x50 sm	19x1.83	1.0	1.8	28.5	2050
4x70 sm	19x2.22	1.1	2.0	31.5	2960
4x95 sm	19x2.57	1.1	2.1	35.0	3930
4x120 sm	37x2.08	1.2	2.2	39.2	4920
4x150 sm	37x2.30	1.4	2.4	43.5	6060
4x185 sm	37x2.57	1.6	2.5	48.0	7560
4x240 sm	37x2.93	1.7	2.7	55.5	9890
4x300 sm	37x3.34	1.8	2.9	61.0	12290
4x400 sm	61x2.90	2.0	3.1	70.5	15690
5x1.5 rm	7x0.53	0.7	1.8	13.8	276
5x2.5 rm	7x0.67	0.7	1.8	14.8	330
5x4 rm	7x0.85	0.7	1.8	16.4	444
5x6 rm	7x1.04	0.7	1.8	17.8	570
5x10 rm	7x1.35	0.7	1.8	20.4	826
5x16 rm	7x1.70	0.7	1.8	23.2	1160
5x25 rm	7x2.14	0.9	1.9	27.8	1740
5x35 rm	7x2.52	0.9	2.0	31.7	2350
5x50 sm	19x1.83	1.0	2.1	36.4	3100
5x70 sm	19x2.22	1.1	2.3	42.6	4460

N2XY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
5x1.5 re	1x1.38	0.7	1.8	13.2	270
5x1.5 rm	7x0.53	0.7	1.8	13.7	276
6x1.5 re	1x1.38	0.7	1.8	14.0	305
6x1.5 rm	7x0.53	0.7	1.8	14.6	310
7x1.5 re	1x1.38	0.7	1.8	14.0	305
7x1.5 rm	7x0.53	0.7	1.8	14.6	315
10x1.5 re	1x1.38	0.7	1.8	16.8	420
10x1.5 rm	7x0.53	0.7	1.8	17.6	430
12x1.5 re	1x1.38	0.7	1.8	17.2	465
12x1.5 rm	7x0.53	0.7	1.8	17.9	480
16x1.5 re	1x1.38	0.7	1.8	18.8	575
16x1.5 rm	7x0.53	0.7	1.8	19.6	590
19x1.5 re	1x1.38	0.7	1.8	19.6	620
19x1.5 rm	7x0.53	0.7	1.8	20.6	634
20x1.5 re	1x1.38	0.7	1.8	21.0	640
20x1.5 rm	7x0.53	0.7	1.8	22.1	955
24x1.5 re	1x1.38	0.7	1.8	22.4	755
24x1.5 rm	7x0.53	0.7	1.8	23.6	780
27x1.5 re	1x1.38	0.7	1.8	22.8	810
27x1.5 rm	7x0.53	0.7	1.8	24.2	840
30x1.5 re	1x1.38	0.7	1.8	23.6	900
30x1.5 rm	7x0.53	0.7	1.8	25.0	920
34x1.5 re	1x1.38	0.7	1.8	25.2	1080
34x1.5 rm	7x0.53	0.7	1.8	26.6	1110
37x1.5 re	1x1.38	0.7	1.8	25.2	1090
37x1.5 rm	7x0.53	0.7	1.8	26.6	1120
48x1.5 re	1x1.38	0.7	1.9	28.6	1420
48x1.5 rm	7x0.53	0.7	1.9	30.2	1460
52x1.5 re	1x1.38	0.7	1.9	29.5	1500
52x1.5 rm	7x0.53	0.7	2.0	31.6	1530
61x1.5 re	1x1.38	0.7	2.0	32.6	1710
61x1.5 rm	7x0.53	0.7	2.0	33.5	1740

N2XY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
5x2.5 re	1x1.78	0.7	1.8	14.2	320
5x2.5 rm	7x0.67	0.7	1.8	14.8	330
6x2.5 re	1x1.78	0.7	1.8	15.2	395
6x2.5 rm	7x0.67	0.7	1.8	15.8	405
7x2.5 re	1x1.78	0.7	1.8	15.2	400
7x2.5 rm	7x0.67	0.7	1.8	15.8	410
10x2.5 re	1x1.78	0.7	1.8	18.4	545
10x2.5 rm	7x0.67	0.7	1.8	19.2	560
12x2.5 re	1x1.78	0.7	1.8	18.9	610
12x2.5 rm	7x0.67	0.7	1.8	19.8	620
16x2.5 re	1x1.78	0.7	1.8	20.6	740
16x2.5 rm	7x0.67	0.7	1.8	21.6	755
19x2.5 re	1x1.78	0.7	1.8	21.6	850
19x2.5 rm	7x0.67	0.7	1.8	22.6	870
20x2.5 re	1x1.78	0.7	1.8	23.2	875
20x2.5 rm	7x0.67	0.7	1.8	24.4	890
24x2.5 re	1x1.78	0.7	1.8	24.8	1125
24x2.5 rm	7x0.67	0.7	1.8	26.0	1146
27x2.5 re	1x1.78	0.7	1.8	25.3	1230
27x2.5 rm	7x0.67	0.7	1.8	26.5	1260
30x2.5 re	1x1.78	0.7	1.8	26.1	1310
30x2.5 rm	7x0.67	0.7	1.8	27.5	1340
34x2.5 re	1x1.78	0.7	1.8	28.0	1390
34x2.5 rm	7x0.67	0.7	1.9	29.6	1420
37x2.5 re	1x1.78	0.7	1.8	28.0	1550
37x2.5 rm	7x0.67	0.7	1.9	29.6	1580
48x2.5 re	1x1.78	0.7	2.0	32.0	2030
48x2.5 rm	7x0.67	0.7	2.1	34.0	2070
52x2.5 re	1x1.78	0.7	2.1	33.5	2080
52x2.5 rm	7x0.67	0.7	2.1	35.2	2130
61x2.5 re	1x1.78	0.7	2.2	35.6	2400
61x2.5 rm	7x0.67	0.7	2.2	37.5	2470

XLPE INSULATED PVC SHEATHED MULTI CORE SCREENED CABLES

N2XCY- N2XCWY- N2XSY / 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or underground in power and switching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Screen : Concentric Plain annealed copper wire applied helically over cable core , tape with open helix of copper band or copper tape screen.
6) outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

* N2XCYRY code can be supplied on request.

Size	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
2x1.5/1.5 rm	7x0.53	0.7	1.8	13.2	235
2x2.5/2.5 rm	7x0.67	0.7	1.8	14.2	280
2x4/4 rm	7x0.85	0.7	1.8	15.5	358
2x6/6 rm	7x1.04	0.7	1.8	16.7	445
2x10/10 rm	7x1.35	0.7	1.8	18.9	630
2x16/16 rm	7x1.70	0.7	1.8	21.3	870
2x25/25 rm	7x2.14	0.9	1.8	25.0	1275
2x35/35 rm	7x2.52	0.9	1.8	27.6	1640
3x1.5/1.5 rm	7x0.53	0.7	1.8	13.4	250
3x2.5/2.5 rm	7x0.67	0.7	1.8	14.4	314
3x4/4 rm	7x0.85	0.7	1.8	16.0	410
3x6/6 rm	7x1.04	0.7	1.8	17.2	515
3x10/10 rm	7x1.35	0.7	1.8	19.6	735
3x16/16 rm	7x1.70	0.7	1.8	22.0	1025
3x25/25 rm	7x2.14	0.9	1.8	26.1	1520
3x35/35 rm	7x2.52	0.9	1.9	29.0	1980

XLPE INSULATED PVC SHEATHED SINGLE AND MULTI CORE ARMOURED CABLES

N2XRY, 0.6/1.0 kv

Application : These cables can be used indoor or outdoor in cable duct, cable trays, conduit or underground location under mechanical stress in power and switching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Armour : Aluminum wire armour for single core and Galvanized steel wire armour for multi core
6) Outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SINGLE CORE

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
1x4 rm	7x0.85	0.7	0.9	1.8	11.8	280
1x6 rm	7x1.04	0.7	0.9	1.8	12.3	316
1x10 rm	7x1.35	0.7	0.9	1.8	13.3	386
1x16 rm	7x1.70	0.7	0.9	1.8	14.2	360
1x25 rm	7x2.14	0.9	0.9	1.8	16.0	480
1x35 rm	7x2.52	0.9	1.2	1.8	17.8	630
1x50 rm	19x1.78	1.0	1.2	1.8	18.9	770
1x70 rm	19x2.17	1.1	1.2	1.8	21.5	1040
1x95 rm	19x2.52	1.1	1.6	1.8	23.6	1340
1x120 rm	37x2.03	1.2	1.6	1.8	25.8	1630
1x150 rm	37x2.25	1.4	1.6	1.9	28.0	2000
1x185 rm	37x2.52	1.6	1.6	2.0	30.2	2345
1x240 rm	37x2.88	1.7	2.0	2.1	33.2	3150
1x300 rm	37x3.34	1.8	2.0	2.2	37.0	3720
1x400 rm	61x2.85	2.0	2.0	2.3	40.6	4710

MULTI CORE , N2XRY 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
2x1.5 rm	7x0.53	0.7	0.9	1.8	14.0	370
2x2.5 rm	7x0.67	0.7	0.9	1.8	14.8	510
2x4 rm	7x0.85	0.7	0.9	1.8	16.0	420
2x6 rm	7x1.04	0.7	1.2	1.8	17.5	670
2x10 rm	7x1.35	0.7	1.2	1.8	18.5	820
2x16 rm	7x1.70	0.7	1.2	1.8	20.5	1040
2x25 rm	7x2.14	0.9	1.6	1.8	24.5	1540
2x35 rm	7x2.52	0.9	1.6	1.8	28.0	1980
2x50 rm	19x1.78	1.0	1.6	1.9	31.2	2400
2x70 rm	19x2.17	1.1	2.0	2.1	36.6	3460
3x1.5 rm	7x0.53	0.7	0.9	1.8	13.7	360
3x2.5 rm	7x0.67	0.7	0.9	1.8	15.1	450
3x4 rm	7x0.85	0.7	1.2	1.8	17.0	620
3x6 rm	7x1.04	0.7	1.2	1.8	18.4	770
3x10 rm	7x1.35	0.7	1.2	1.8	20.0	940
3x16 rm	7x1.70	0.7	1.2	1.8	22.5	1220
3x25 rm	7x2.14	0.9	1.6	1.8	25.5	1820
3x35 rm	7x2.52	0.9	1.6	1.9	29.4	2330
3x50 sm	19x1.83	1.0	1.6	2.0	31.2	2540
3x70 sm	19x2.22	1.1	2.0	2.1	35.5	3630
3x95 sm	19x2.57	1.1	2.0	2.2	38.5	4490
3x120 sm	37x2.08	1.2	2.0	2.3	41.0	5350
3x150 sm	37x2.30	1.4	2.5	2.5	47.0	6840
3x185 sm	37x2.57	1.6	2.5	2.6	52.0	8220
3x240 sm	37x2.93	1.7	2.5	2.8	57.5	10260
3x300 sm	37x3.34	1.8	2.5	3.0	63.0	12370
3x400 sm	61x2.92	2.0	2.5	3.2	71.0	15390
3x25/16 rm	7x2.14 - 7x1.70	0.9 - 0.7	1.6	1.8	27.0	2030
3x35/16 rm	7x2.52 - 7x1.70	0.9 - 0.7	1.6	1.9	32.2	2740
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	1.6	2.0	32.4	2620
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	2.0	2.1	36.5	3930
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 0.9	2.0	2.2	40.5	5000
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	2.0	2.3	43.5	6110
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	2.5	2.5	49.0	7570
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	2.5	2.7	53.5	9220
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	2.5	2.8	58.5	11470
3x300/150 sm	37x3.34 - 37x2.30	1.8 - 1.4	2.5	3.0	64.5	13930
3x400/185 sm	61x2.90 - 37x2.57	2.0 - 1.6	2.5	3.3	73.0	17320

N2XRY

Size	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x1.5 rm	7x0.53	0.7	0.9	1.8	15.4	455
4x2.5 rm	7x0.67	0.7	0.9	1.8	16.0	516
4x4 rm	7x0.85	0.7	1.2	1.8	18.2	720
4x6 rm	7x1.04	0.7	1.2	1.8	19.6	860
4x10 rm	7x1.35	0.7	1.6	1.8	22.5	1210
4x16 rm	7x1.70	0.7	1.6	1.8	25.0	1620
4x25 rm	7x2.14	0.9	1.6	1.8	27.8	2160
4x35 rm	7x2.52	0.9	1.6	2.0	32.2	2780
4x50 sm	19x1.83	1.0	1.6	2.0	33.2	3040
4x70 sm	19x2.22	1.1	2.0	2.2	37.0	4300
4x95 sm	19x2.57	1.1	2.0	2.3	41.0	5430
4x120 sm	37x2.08	1.2	2.0	2.4	43.5	6560
4x150 sm	37x2.30	1.4	2.5	2.6	50.0	8300
4x185 sm	37x2.57	1.6	2.5	2.7	56.5	9980
4x240 sm	37x2.93	1.7	2.5	3.0	63.9	12780
4x300 sm	37x3.34	1.8	2.5	3.2	70.2	15490
4x400 sm	61x2.92	2.0	3.15	3.4	81.5	20260
5x1.5 rm	7x0.53	0.7	1.2	1.8	16.5	560
7x1.5 rm	7x0.53	0.7	1.2	1.8	17.0	620
10x1.5 rm	7x0.53	0.7	1.2	1.8	20.4	790
12x1.5 rm	7x0.53	0.7	1.2	1.8	21.0	870
14x1.5 rm	7x0.53	0.7	1.2	1.8	21.5	925
19x1.5 rm	7x0.53	0.7	1.6	1.8	24.2	1260
24x1.5 rm	7x0.53	0.7	1.6	1.8	27.2	1480
30x1.5 rm	7x0.53	0.7	1.6	1.9	28.7	1680
37x1.5 rm	7x0.53	0.7	1.6	1.9	30.5	1940
40x1.5 rm	7x0.53	0.7	1.6	2.0	32.2	2070
5x2.5 rm	7x0.67	0.7	1.2	1.8	17.8	670
7x2.5 rm	7x0.67	0.7	1.2	1.8	18.6	760
10x2.5 rm	7x0.67	0.7	1.6	1.8	23.0	1124
12x2.5 rm	7x0.67	0.7	1.6	1.8	23.8	1210
14x2.5 rm	7x0.67	0.7	1.6	1.8	24.3	1316
19x2.5 rm	7x0.67	0.7	1.6	1.8	26.4	1590
24x2.5 rm	7x0.67	0.7	1.6	1.9	30.0	1880
30x2.5 rm	7x0.67	0.7	1.6	2.0	31.8	2126
37x2.5 rm	7x0.67	0.7	2.0	2.1	34.5	2710
40x2.5 rm	7x0.67	0.7	2.0	2.2	36.2	2890

XLPE INSULATED PVC SHEATHED MULTI CORE TAPE ARMOURED CABLES

N2XYBY, 0.6/1.0 kv

Application : These cables can be used indoor or outdoor in cable duct, cable trays, conduit or underground location under mechanical stress in power and switching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Armour : Galvanized steel tape armour
6) outer sheath : Polyvinyl chloride –PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Size	No. strand x diameter	Insulation thickness	Tape Armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
2x1.5 rm	7x0.53	0.7	0.2	1.8	12.8	260
2x2.5 rm	7x0.67	0.7	0.2	1.8	13.8	305
2x4 rm	7x0.85	0.7	0.2	1.8	14.5	360
2x6 rm	7x1.04	0.7	0.2	1.8	16.6	455
2x10 rm	7x1.35	0.7	0.2	1.8	18.0	580
2x16 rm	7x1.70	0.7	0.2	1.8	19.6	740
2x25 rm	7x2.14	0.9	0.2	1.8	23.2	1050

N2XYBY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Tape Armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x1.5 rm	7x0.53	0.7	0.2	1.8	13.4	285
3x2.5 rm	7x0.67	0.7	0.2	1.8	14.4	340
3x4 rm	7x0.85	0.7	0.2	1.8	15.4	410
3x6 rm	7x1.04	0.7	0.2	1.8	16.8	530
3x10 rm	7x1.35	0.7	0.2	1.8	18.5	690
3x16 rm	7x1.70	0.7	0.2	1.8	20.4	910
3x25 rm	7x2.14	0.9	0.2	1.8	23.8	1280
3x35 rm	7x2.52	0.9	0.2	1.8	26.4	1650
3x50 sm	19x1.83	1.0	0.2	1.9	28.4	1970
3x70 sm	19x2.22	1.1	0.2	2.0	32.0	2640
3x95 sm	19x2.57	1.1	0.5	2.2	36.5	3865
3x120 sm	37x2.08	1.2	0.5	2.3	39.4	4670
3x150 sm	37x2.30	1.4	0.5	2.4	43.8	5660
3x185 sm	37x2.57	1.6	0.5	2.6	49.0	6980
3x240 sm	37x2.93	1.7	0.5	2.8	54.4	8840
3x300 sm	37x3.34	1.8	0.5	3.0	60.0	10860

Size	No. strand x diameter	Insulation thickness	Tape Armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	0.9 - 0.7	0.2	1.8	24.8	1460
3x35/16 rm	7x2.52 - 7x1.70	0.9 - 0.7	0.2	1.8	27.4	1820
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	0.2	1.9	32.0	2290
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	0.2	2.1	35.5	3080
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 1.0	0.5	2.2	41.0	4480
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	0.5	2.4	46.0	5540
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	0.5	2.5	51.0	6580
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	0.5	2.7	55.2	8160
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	0.5	2.9	63.0	10360
3x300/150 sm	37x3.34 - 37x2.30	1.8 - 1.4	0.5	3.0	70.0	12820

N2XYBY, 0.6/1.0 kv

Size	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x1.5 rm	7x0.53	0.7	0.2	1.8	13.8	315
4x2.5 rm	7x0.67	0.7	0.2	1.8	14.8	380
4x4 rm	7x0.85	0.7	0.2	1.8	16.0	470
4x6 rm	7x1.04	0.7	0.2	1.8	18.5	620
4x10 rm	7x1.35	0.7	0.2	1.8	20.0	810

4x16 rm	7x1.70	0.7	0.2	1.8	22.0	1100
4x25 rm	7x2.14	0.9	0.2	1.8	26.2	1600
4x35 rm	7x2.52	0.9	0.2	1.9	31.4	2280
4x50 sm	19x1.83	1.0	0.2	2.0	32.6	2540
4x70 sm	19x2.22	1.1	0.5	2.2	37.3	3800
4x95 sm	19x2.57	1.1	0.5	2.3	41.8	4990
4x120 sm	37x2.08	1.2	0.5	2.4	46.0	6050
4x150 sm	37x2.30	1.4	0.5	2.6	51.0	7370
4x185 sm	37x2.57	1.6	0.5	2.8	55.8	9080
4x240 sm	37x2.93	1.7	0.5	3.0	63.5	11620
4x300 sm	61x2.57	1.8	0.5	3.2	71.0	14400
5x1.5 rm	7x0.53	0.7	0.2	1.8	14.8	360
7x1.5 rm	7x0.53	0.7	0.2	1.8	16.0	430
10x1.5 rm	7x0.53	0.7	0.2	1.8	19.0	560
12x1.5 rm	7x0.53	0.7	0.2	1.8	19.5	600
14x1.5 rm	7x0.53	0.7	0.2	1.8	20.0	640
16x1.5 rm	7x0.53	0.7	0.2	1.8	21.3	710
19x1.5 rm	7x0.53	0.7	0.2	1.8	21.8	780
24x1.5 rm	7x0.53	0.7	0.2	1.8	25.0	940
30x1.5 rm	7x0.53	0.7	0.2	1.8	26.0	1070
37x1.5 rm	7x0.53	0.7	0.2	1.8	28.2	1240
40x1.5 rm	7x0.53	0.7	0.2	1.9	29.2	1345
52x1.5 rm	7x0.53	0.7	0.2	2.0	32.3	1610
61x1.5 rm	7x0.53	0.7	0.2	2.1	34.5	1850
5x2.5 rm	7x0.67	0.7	0.2	1.8	15.8	440
7x2.5 rm	7x0.67	0.7	0.2	1.8	17.0	520
10x2.5 rm	7x0.67	0.7	0.2	1.8	20.6	680
12x2.5 rm	7x0.67	0.7	0.2	1.8	21.1	745
14x2.5 rm	7x0.67	0.7	0.2	1.8	22.2	820
16x2.5 rm	7x0.67	0.7	0.2	1.8	22.8	900
19x2.5 rm	7x0.67	0.7	0.2	1.8	24.0	990
24x2.5 rm	7x0.67	0.7	0.2	1.8	27.5	1220
30x2.5 rm	7x0.67	0.7	0.2	1.9	26.0	1420
37x2.5 rm	7x0.67	0.7	0.2	1.9	31.2	1650
40x2.5 rm	7x0.67	0.7	0.2	2.0	32.4	1810
52x2.5 rm	7x0.67	0.7	0.5	2.1	37.4	2570
61x2.5 rm	7x0.67	0.7	0.5	2.2	39.4	2920

Aluminum Cables

Polyvinylchloride PVC or cross linked polyethylene XLPE insulation
600/1000 V

AL/PVC/PVC (NAYY)
AL/XLPE/PVC (NA2XY)
AL/XLPE/PVC/SWA/PVC (NA2XRY)
AL/XLPE/PVC/DTA/PVC (NA2XBY)
AL/XLPE (AERIAL BUNDLED CABLE - ABC CABLES)

SHAHIN CABLE

PVC INSULATED PVC SHEATED SINGLE CORE CABLE NAYY , 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable duct or tray in power and switching station,industrial plant and commercial buildings. Suitable for direct burial where there is no danger of mechanical damage.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain aluminum stranded and compacted as per class2 of IEC 60228
2) Insulation : Polyvinyl chloride- PVC
3) Core identification : colour
4) Outer sheath : Polyvinyl chloride -PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Single core

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
1x16 rm	7x1.70	1.0	1.4	9.9	128
1x25 rm	7x2.14	1.2	1.4	11.6	180
1x35 rm	7x2.57	1.2	1.4	12.8	224
1x50 rm	19x1.83	1.4	1.4	14.5	288
1x70 rm	19x2.22	1.4	1.4	16.7	368
1x95 rm	19x2.57	1.6	1.5	18.9	488
1x120 rm	37x2.10	1.6	1.5	20.6	582
1x150 rm	37x2.30	1.8	1.6	22.8	700
1x185 rm	37x2.57	2.0	1.7	25.2	870
1x240 rm	37x2.93	2.2	1.8	28.5	1100
1x300 rm	37x3.34	2.4	1.9	31.5	1360
1x400 rm	61x2.90	2.6	2.0	35.1	1720
1x500 rm	61x3.28	2.8	2.1	38.8	2120

PVC INSULATED PVC SHEATED MULTI CORE CABLE

NAYY , 0.6/1.0 kv

Application : These cables can be used indoors ooutdoors in cable duct or tray in power and switching station, industrial plant and commercial buildings. Suitable for direct burial where there is no danger of mechanical damage.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain aluminum stranded as per class2 of IEC 60228
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour
4) Inner covering : Extruded PVC compatible withthe operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Outer sheath :Polyvinyl chloride -PVC
standard colour is black, but any other colourcan be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
3x50 sm	19x1.83	1.4	1.8	26.8	830
3x70 sm	19x2.22	1.4	1.9	30.2	1050
3x95 sm	19x2.57	1.6	2.0	33.8	1430
3x120 sm	37x2.08	1.6	2.1	36.4	1710
3x150 sm	37x2.30	1.8	2.2	40.5	2090
3x185 sm	37x2.57	2.0	2.4	45.2	2520
3x240 sm	37x2.93	2.2	2.6	52	3260
3x300 sm	37x3.34	2.4	2.7	59	4010

NAYY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
3x25+16 rm	7x2.14 – 7x1.70	1.2 – 1.0	1.8	26.2	904
3x35+16 rm	7x2.52 – 7x1.70	1.2 – 1.0	1.8	28.5	1080
3x50/25 sm	19x1.83 - 7x2.14	1.4 – 1.2	1.8	27.6	925
3x70/35 sm	19x2.22 - 7x2.52	1.4 – 1.2	1.9	31.0	1180
3x95/50 sm	19x2.57 - 19x1.83	1.6 – 1.4	2.1	34.7	1630
3x120/70 sm	37x2.08 - 19x2.22	1.6 – 1.4	2.2	38.2	1980
3x150/70 sm	37x2.30 - 19x2.22	1.8 – 1.4	2.3	44	2360
3x185/95 sm	37x2.57 - 19x2.57	2.0 – 1.6	2.4	47.4	2890
3x240/120 sm	37x2.93 - 37x2.08	2.2 – 1.6	2.5	53.6	3722

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
4x50 sm	19x1.83	1.4	1.9	30.6	1090
4x70 sm	19x2.22	1.4	2.0	34.2	1400
4x95 sm	19x2.57	1.6	2.1	38.4	1880
4x120 sm	37x2.08	1.6	2.2	41.5	2260
4x150 sm	37x2.30	1.8	2.4	45.5	2790
4x185 sm	37x2.57	2.0	2.6	50.5	3370
4x240 sm	37x2.93	2.2	2.8	59	4350

XLPE INSULATED PVC SHEATED SINGLE CORE CABLE

NA2XY , 0.6/1.0 kv

Application : These cables can be used indoors oroutdoors in cable duct or tray in power and switching stations, industrialplant and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain aluminum stranded and compacted as per class2 of IEC 60228
2) Insulation : Cross-linked polyethyleneXLPE
3) Core identification : colour
4) outer sheath : Polyvinyl chloride -PVC
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

Single core

SIZE	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
1x16 rm	7x1.70	0.7	1.4	9.5	116
1x25 rm	7x2.14	0.9	1.4	11.2	166
1x35 rm	7x2.57	0.9	1.4	12.1	204
1x50 rm	19x1.83	1.0	1.4	13.3	256
1x70 rm	19x2.22	1.1	1.4	15.3	336
1x95 rm	19x2.57	1.1	1.5	17.2	445
1x120 rm	37x2.10	1.2	1.5	18.5	546
1x150 rm	37x2.30	1.4	1.6	20.6	670
1x185 rm	37x2.57	1.6	1.6	22.5	820
1x240 rm	37x2.93	1.7	1.8	26.2	1060
1x300 rm	37x3.34	1.8	1.9	29.2	1290
1x400 rm	61x2.90	2.0	2.0	31.4	1600
1x500 rm	61x3.28	2.2	2.1	35.6	2080

XLPE INSULATED PVC SHEATED MULTI CORE CABLE

NA2XY , 0.6/1.0 kv

Application : These cables can be used indoors oroutdoors in cable duct or tray in power and switching stations, industrialplant and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor :Plain aluminum stranded as per class2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

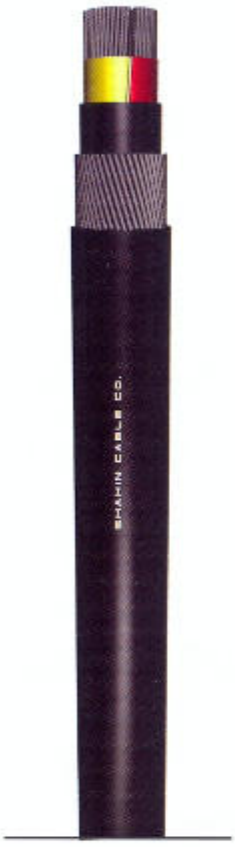
1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
3x50 sm	19x1.83	1.0	1.8	25.1	720
3x70 sm	19x2.22	1.1	1.9	28.4	950
3x95 sm	19x2.57	1.1	2.0	31.5	1220
3x120 sm	37x2.08	1.2	2.1	35.0	1510
3x150 sm	37x2.30	1.4	2.2	39.0	1860
3x185 sm	37x2.57	1.6	2.3	43.2	2320
3x240 sm	37x2.93	1.7	2.6	49.0	2950
3x300 sm	37x3.34	1.8	2.7	55.2	3660

NA2XY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
3x25+16 rm	7x2.14 – 7x1.70	0.9 – 0.7	1.8	24.2	780
3x35+16 rm	7x2.52 – 7x1.70	0.9 – 0.7	1.8	26.2	940
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	1.8	26.2	860
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	1.9	29.4	1160
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 1.0	2.1	32.5	1520
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	2.2	36.2	1910
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	2.3	41.2	2280
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	2.5	44.4	2840
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	2.7	51.2	3520

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
4x50 sm	19x1.83	1.0	1.8	28.2	940
4x70 sm	19x2.22	1.1	2.0	31.5	1250
4x95 sm	19x2.57	1.1	2.1	35.0	1640
4x120 sm	37x2.08	1.2	2.2	39.0	2050
4x150 sm	37x2.30	1.4	2.4	43.4	2500
4x185 sm	37x2.57	1.6	2.5	48	3130
4x240 sm	37x2.93	1.7	2.7	55.4	4010



XLPE INSULATED PVC SHEATED MULTI CORE ARMOURED CABLE

NA2XRY , 0.6/1.0 kv

Application : These cables can be used indoor or outdoorin cable duct, cable trays, conduit or underground location under mechanical stress in power andswitching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plainaluminum stranded as per class2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour
4) Inner covering : Extruded PVC compatible with the operating temperature of the conductor. In sector cables the core covered with one or two layer polypropylene tape.
5) Armour : Galvanized steel wire armour
6) Outer sheath :Polyvinyl chloride –PVC standardcolour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x50 sm	19x1.83	1.0	1.6	1.9	31.2	1600
3x70 sm	19x2.22	1.1	2.0	2.1	35.4	2200
3x95 sm	19x2.57	1.1	2.0	2.2	38.4	2720
3x120 sm	37x2.08	1.2	2.0	2.3	41.0	3140
3x150 sm	37x2.30	1.4	2.5	2.5	47.0	4040
3x185 sm	37x2.57	1.6	2.5	2.6	52.0	4810
3x240 sm	37x2.93	1.7	2.5	2.8	57.5	5860
3x300 sm	37x3.34	1.8	2.5	3.0	63.0	6700

MULTI CORE , NA2XRY, 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	Mm	mm	mm	mm	Kg/km
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	1.6	2.0	32.2	1860
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	2.0	2.1	36.4	2600
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 0.9	2.0	2.2	40.2	3080
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	2.5	2.3	43.4	3680
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	2.5	2.5	49.0	4680
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	2.5	2.7	53.6	5540
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	2.5	2.8	58.6	6540

SIZE	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x50 sm	19x1.83	1.0	1.6	2.0	33.4	2020
4x70 sm	19x2.22	1.1	2.0	2.2	37.0	2750
4x95 sm	19x2.57	1.1	2.0	2.3	41.0	3320
4x120 sm	37x2.08	1.2	2.5	2.4	43.5	4300
4x150 sm	37x2.30	1.4	2.5	2.6	50.2	5060
4x185 sm	37x2.57	1.6	2.5	2.7	56.6	5870
4x240 sm	37x2.93	1.7	2.5	3.0	64.0	7210

XLPE INSULATED PVC SHEATED MULTI CORE TAPE ARMOURED CABLE

NA2XBY , 0.6/1.0 kv

Application : These cables can be used indoor or outdoor incable duct, cable trays, conduit or underground location undermechanical stress in power and switching station, local distribution systems, industrial plants and commercial building.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plainaluminum stranded as per class2 of IEC 60228
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : colour
4) Inner covering : Extruded PVC compatible withthe operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Armour : Galvanized steel tape armour
6) Outer sheath : Polyvinyl chloride –PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x50 sm	19x1.83	1.0	0.2	1.9	28.2	1000
3x70 sm	19x2.22	1.1	0.2	2.0	32.0	1200
3x95 sm	19x2.57	1.1	0.5	2.2	36.4	1640
3x120 sm	37x2.08	1.2	0.5	2.3	39.6	2320
3x150 sm	37x2.30	1.4	0.5	2.4	43.6	2750
3x185 sm	37x2.57	1.6	0.5	2.6	49.0	3330
3x240 sm	37x2.93	1.7	0.5	2.8	54.2	4210
3x300 sm	37x3.34	1.8	0.5	3.0	60.0	5030

NA2XBY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	0.2	1.9	29.6	1200
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	0.2	2.1	33.5	1530
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 1.0	0.5	2.2	38.6	1950
3x120/70 sm	37x2.08 - 19x2.22	1.2 - 1.1	0.5	2.4	42.5	2700
3x150/70 sm	37x2.30 - 19x2.22	1.4 - 1.1	0.5	2.5	47.0	3270
3x185/95 sm	37x2.57 - 19x2.57	1.6 - 1.1	0.5	2.7	51.8	3960
3x240/120 sm	37x2.93 - 37x2.08	1.7 - 1.2	0.5	2.9	57.0	4890

SIZE	No. strand x diameter	Insulation thickness	Tape armour thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x50 sm	19x1.83	1.0	0.2	2.0	30.8	1270
4x70 sm	19x2.22	1.1	0.5	2.2	35.4	1740
4x95 sm	19x2.57	1.1	0.5	2.3	40.6	2520
4x120 sm	37x2.08	1.2	0.5	2.4	44.0	3000
4x150 sm	37x2.30	1.4	0.5	2.6	49.5	3650
4x185 sm	37x2.57	1.6	0.5	2.8	54.0	4360
4x240 sm	37x2.93	1.7	0.5	3.0	61.0	4410

XLPE INSULATED AERIAL BUNDLED CABLE (ABC)

NFA2X , 0.6/1.0 kv

Application : These cables can be used electrical distribution systems

Specification : BS 7870

Construction :

1) Conductor : Plain aluminum stranded, compacted as per class2 of IEC 60228 with (EC grade 1350 alloy)
2) Insulation : Cross-linked polyethylene -XLPE
3) Core identification : Black with continuous longitudinal ribs

Technical data :

1) Temperature : -40°C to +80°C
2) Maximum of resistivity for aluminum : 0.02808Ω.mm^2/m
3) Conductor resistance : As per class 2 of IEC 60228
4) Maximum short circuit temperature : 250°C (5 seconds Max.)
5) lay of length : (22-28) timesof overall diameter (mm) – left-handed
6) Working voltage : 0.6/1.0 kv
7) Test voltage : 2.5 KVAC for 5 minutes
8) Messenger size : 16 (7x1.57 mm) , 25(7x1.93 mm)
9) In three core cables : (1 x phase + lighting – neutral/messenger)
   In five core cables : (3 x phase + lighting – neutral/messenger)
   In six core cables : (3 x phase + lighting + neutral - messenger)

* The other technical data will be according BS 7870 or equivalent standard.

SIZE	No. strand x diameter	Insulation thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	Kg/km
1x25+16-25	7x2.22 – 7x1.73	1.3 – 1.1	15.0	330
1x35+16-35	7x2.62 – 7x1.73	1.3 – 1.1	22.0	386
3x35+16-35	7x2.62 – 7x1.73	1.3 – 1.1	27.0	640
3x50+16-35	7x3.09 – 7x1.73	1.5 – 1.1	29.0	785
3x70+25-70	19x2.22 – 7x2.22	1.5 – 1.3	35.0	1155
3x95+25-70	19x2.62 – 7x2.22	1.7 – 1.3	38.0	1426
3x35+16+25-25	7x2.62 – 7x1.73 – 7x2.22	1.3 – 1.1 – 1.3	28.0	730
3x50+16+35-25	7x3.09 – 7x1.73 – 7x2.62	1.5 – 1.1 – 1.3	31.0	906
3x70+16+50-25	19x2.22 – 7x1.73 – 7x3.09	1.5 – 1.1 – 1.5	34.0	1160
3x95+25+70-25	19x2.62 – 7x2.22 – 19x2.22	1.7 – 1.3 – 1.5	39.0	1530

SHAHIN CABLE

Lead sheathed cables

Polyvinylchloride PVC or cross linked polyethylene XLPE insulation
600/1000 V

CU/PVC/LSH/PVC [NYKY]

CU/PVC/LSH/PVC/SWA/PVC [NYKYRY]

CU/XLPE/LSH/PVC [N2XKY]

CU/XLPE/LSH/PVC/SWA/PVC [N2XKYRY]

PVC INSULATED, LEAD SHEATH PVC SHEATHED CABLE

NYKY , 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or in power and control station at oil, refining and petrochemical industries.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228 , ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Bedding : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Metal sheath : one layer lead sheathed
6) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : Asper class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
1x50 rm	19x1.78	1.4	1.2	1.8	20.1	1380
1x70 rm	19x2.17	1.4	1.2	1.8	22.1	1710
1x95 rm	19x2.52	1.6	1.2	1.8	24.2	2070
1x120 rm	37x2.03	1.6	1.3	1.8	26.0	2480
1x150 rm	37x2.25	1.8	1.3	1.9	28.2	2900
1x185 rm	37x2.52	2.0	1.4	1.9	30.6	3160
1x240 rm	37x2.88	2.2	1.5	2.1	34.2	4370
1x300 rm	37x3.34	2.4	1.6	2.2	37.4	5350
1x400 rm	61x2.85	2.6	1.7	2.3	41.4	6560
2x1.5 rm	7x0.53	0.8	1.2	1.8	14.8	655
2x2.5 rm	7x0.67	0.8	1.2	1.8	15.6	730
2x4 rm	7x0.85	1.0	1.2	1.8	18.2	924
2x6 rm	7x1.04	1.0	1.2	1.8	18.8	1020
2x10 rm	7x1.35	1.0	1.2	1.8	20.6	1230
2x16 rm	7x1.70	1.0	1.2	1.8	22.6	1500
2x25 rm	7x2.14	1.2	1.3	1.8	26.4	2040
2x35 rm	7x2.52	1.2	1.4	1.9	29.2	2530

NYKY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x1.5 rm	7x0.53	0.8	1.2	1.8	15.4	705
3x2.5 rm	7x0.67	0.8	1.2	1.8	16.0	770
3x4 rm	7x0.85	1.0	1.2	1.8	18.4	980
3x6 rm	7x1.04	1.0	1.2	1.8	19.6	1130
3x10 rm	7x1.35	1.0	1.2	1.8	21.2	1370
3x16 rm	7x1.70	1.0	1.2	1.8	23.2	1680
3x25 rm	7x2.14	1.2	1.3	1.8	27.8	2360
3x35 rm	7x2.52	1.2	1.4	1.9	30.2	2900
3x50 sm	19x1.83	1.4	1.5	2.0	33.8	3440
3x70 sm	19x2.22	1.4	1.6	2.1	37.0	4400
3x95 sm	19x2.57	1.6	1.7	2.3	42.8	5700
3x120 sm	37x2.10	1.6	1.8	2.4	45.8	6780
3x150 sm	37x2.30	1.8	1.9	2.6	49.8	8080
3x185 sm	37x2.57	2.0	2.0	2.8	55.7	9890

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	1.2 - 1.0	1.3	1.9	29.0	2610
3x35/16 rm	7x2.52 - 7x1.70	1.2 - 1.0	1.4	2.0	31.6	3000
3x50/25 sm	19x1.83 - 7x2.14	1.4 - 1.2	1.5	2.1	35.0	3800
3x70/35 sm	19x2.22 - 7x2.52	1.4 - 1.2	1.6	2.2	37.2	4820
3x95/50 sm	19x2.57 - 19x1.83	1.6 - 1.4	1.7	2.3	42.4	6145
3x120/70 sm	37x2.08 - 19x2.22	1.6 - 1.4	1.8	2.4	44.8	7450
3x150/70 sm	37x2.30 - 19x2.22	1.8 - 1.4	1.9	2.6	50.6	8890

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
4x1.5 rm	7x0.53	0.8	1.2	1.8	15.6	740
4x2.5 rm	7x0.67	0.8	1.2	1.8	16.8	860
4x4 rm	7x0.85	1.0	1.2	1.8	19.8	1110
4x6 rm	7x1.04	1.0	1.2	1.8	21.0	1280
4x10 rm	7x1.35	1.0	1.2	1.8	23.4	1590
4x16 rm	7x1.70	1.0	1.3	1.8	25.8	2070
4x25 rm	7x2.14	1.2	1.4	1.9	30.6	2900
4x35 rm	7x2.52	1.2	1.5	2.0	33.8	3630
4x50 sm	19x1.83	1.4	1.5	2.1	34.6	4010
4x70 sm	19x2.22	1.4	1.6	2.2	37.6	5160
4x95 sm	19x2.57	1.6	1.7	2.3	43.0	6670
4x120 sm	37x2.08	1.6	1.8	2.5	47.6	8150

PVC INSULATED, LEAD SHEATH , ARMOURED PVC SHEATHED CABLE

NYKYRY , 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or in power and control station at oil, refining and petrochemical industries.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228 , ISIRI 3084
2) Insulation : Polyvinyl chloride -PVC
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Bedding-1 : Extruded PVC compatible with the operating temperature of the conductor . Insector cables the corecovered with one or two layer polypropylene tape.
5) Metal sheath : one layer lead sheathed
6) Bedding-2 : Extruded PVC compatible wi th the operating temperature of the conductor
7) Armour : Aluminum wire armour for single core and Galvanized steel wire armour for multi core
8) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -25°C to +80°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d mm	mm	mm	mm	mm	mm	mm	Kg/km
1x50 rm	19x1.78	1.4	1.2	1.2	1.6	1.8	25.7	2100
1x70 rm	19x2.17	1.4	1.2	1.2	1.6	1.8	27.8	2510
1x95 rm	19x2.52	1.6	1.2	1.2	1.6	1.9	30.0	2970
1x120 rm	37x2.03	1.6	1.3	1.2	1.6	2.0	32.0	3450
1x150 rm	37x2.25	1.8	1.3	1.2	1.6	2.1	34.2	3950
1x185 rm	37x2.52	2.0	1.4	1.2	2.0	2.2	37.6	4980
1x240 rm	37x2.88	2.2	1.5	1.2	2.0	2.3	41.0	5870
1x300 rm	37x3.34	2.4	1.6	1.3	2.0	2.4	44.4	7020
2x1.5 rm	7x0.53	0.8	1.2	1.2	1.2	1.8	19.6	1080
2x2.5 rm	7x0.67	0.8	1.2	1.2	1.2	1.8	20.4	1180
2x4 rm	7x0.85	1.0	1.2	1.2	1.6	1.8	23.8	1600
2x6 rm	7x1.04	1.0	1.2	1.2	1.6	1.8	24.4	1720
2x10 rm	7x1.35	1.0	1.2	1.2	1.6	1.8	26.2	1980
2x16 rm	7x1.70	1.0	1.2	1.2	1.6	1.9	28.4	2340
2x25 rm	7x2.14	1.2	1.3	1.2	1.6	2.0	32.4	3030
2x35 rm	7x2.52	1.2	1.4	1.2	2.0	2.1	36.0	3840

NYKYRY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
3x1.5 rm	7x0.53	0.8	1.2	1.2	1.2	1.8	20.2	1150
3x2.5 rm	7x0.67	0.8	1.2	1.2	1.2	1.8	20.8	1240
3x4 rm	7x0.85	1.0	1.2	1.2	1.6	1.8	24.0	1650
3x6 rm	7x1.04	1.0	1.2	1.2	1.6	1.8	25.2	1850
3x10 rm	7x1.35	1.0	1.2	1.2	1.6	1.8	27.0	2140
3x16 rm	7x1.70	1.0	1.2	1.2	1.6	1.9	29.0	2540
3x25 rm	7x2.14	1.2	1.3	1.2	1.6	2.0	33.8	3400
3x35 rm	7x2.52	1.2	1.4	1.2	2.0	2.1	36.6	4240
3x50 sm	19x1.83	1.4	1.5	1.2	2.0	2.3	40.8	5000
3x70 sm	19x2.22	1.4	1.6	1.3	2.0	2.4	44.2	6120
3x95 sm	19x2.57	1.6	1.7	1.4	2.5	2.6	51.2	8120
3x120 sm	37x2.10	1.6	1.8	1.4	2.5	2.7	54.2	9340

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	1.2 - 1.0	1.3	1.2	2.0	2.1	25.8	3920
3x35/16 rm	7x2.52 - 7x1.70	1.2 - 1.0	1.4	1.2	2.0	2.2	38.4	4420
3x50/25 sm	19x1.83 - 7x2.14	1.4 - 1.2	1.5	1.2	2.0	2.3	41.8	5360
3x70/35 sm	19x2.22 - 7x2.52	1.4 - 1.2	1.6	1.3	2.0	2.4	44.8	6520
3x95/50 sm	19x2.57 - 19x1.83	1.6 - 1.4	1.7	1.4	2.5	2.6	50.7	8500
3x120/70 sm	37x2.08 - 19x2.22	1.6 - 1.4	1.8	1.5	2.5	2.7	53.6	10000

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
4x1.5 rm	7x0.53	0.8	1.2	1.2	1.2	1.8	20.4	1200
4x2.5 rm	7x0.67	0.8	1.2	1.2	1.2	1.8	21.6	1340
4x4 rm	7x0.85	1.0	1.2	1.2	1.6	1.8	25.4	1850
4x6 rm	7x1.04	1.0	1.2	1.2	1.6	1.8	26.8	2060
4x10 rm	7x1.35	1.0	1.2	1.2	1.6	1.9	29.2	2460
4x16 rm	7x1.70	1.0	1.3	1.2	1.6	2.0	31.8	3050
4x25 rm	7x2.14	1.2	1.4	1.2	2.0	2.2	37.6	4320
4x35 rm	7x2.52	1.2	1.5	1.2	2.0	2.3	41.0	5180
4x50 sm	19x1.83	1.4	1.5	1.2	2.0	2.3	41.4	5510
4x70 sm	19x2.22	1.4	1.6	1.3	2.0	2.4	44.6	6860
4x95 sm	19x2.57	1.6	1.7	1.4	2.0	2.6	51.4	9080
4x120 sm	37x2.08	1.6	1.8	1.5	2.0	2.8	56.2	10820

XLPE INSULATED, LEAD SHEATH PVC SHEATHED CABLE

N2XKY , 0.6/1.0 kv

Application : These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or in power and control station at oil, refining and petrochemical industries.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper asper class 1 or 2 of IEC 60228 , ISIRI 3084
2) Insulation : Cross-linked polyethylene - XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Bedding : Extruded PVC compatible with the operating temperature of the conductor . In sector cables the core covered with one or two layer polypropylene tape.
5) Metal sheath : on e layer lead sheathed
6) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : Asper class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rmsor 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	Kg/km
1x50 rm	19x1.78	1.0	1.2	1.8	18.9	1270
1x70 rm	19x2.17	1.1	1.2	1.8	21.6	1640
1x95 rm	19x2.52	1.1	1.2	1.8	22.8	1930
1x120 rm	37x2.03	1.2	1.3	1.8	25.2	2360
1x150 rm	37x2.25	1.4	1.3	1.8	27.0	2760
1x185 rm	37x2.52	1.6	1.4	1.9	29.3	3410
1x240 rm	37x2.88	1.7	1.5	2.0	32.8	4170
1x300 rm	37x3.34	1.8	1.6	2.1	36.0	5080
1x400 rm	61x2.85	2.0	1.7	2.2	39.8	6300
2x1.5 rm	7x0.53	0.7	1.2	1.8	14.4	620
2x2.5 rm	7x0.67	0.7	1.2	1.8	15.2	690
2x4 rm	7x0.85	0.7	1.2	1.8	16.4	810
2x6 rm	7x1.04	0.7	1.2	1.8	17.4	910
2x10 rm	7x1.35	0.7	1.2	1.8	19.4	1110
2x16 rm	7x1.70	0.7	1.2	1.8	21.4	1380
2x25 rm	7x2.14	0.9	1.3	1.8	25.0	1890
2x35 rm	7x2.52	0.9	1.3	1.8	27.4	2270

N2XKY , 0.6/1.0 kv

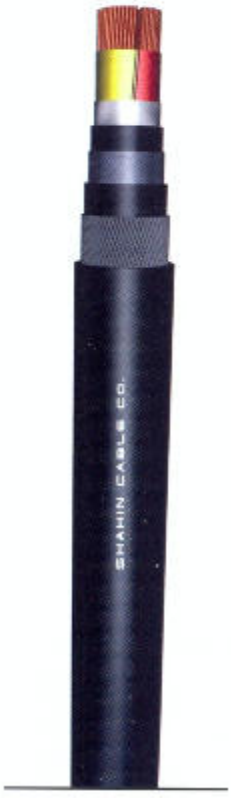
SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_m	mm	mm	mm	mm	Kg/km
3x1.5 rm	7x0.53	0.7	1.2	1.8	14.3	630
3x2.5 rm	7x0.67	0.7	1.2	1.8	15.7	740
3x4 rm	7x0.85	0.7	1.2	1.8	17.0	870
3x6 rm	7x1.04	0.7	1.2	1.8	18.2	1000
3x10 rm	7x1.35	0.7	1.2	1.8	20.4	1270
3x16 rm	7x1.70	0.7	1.2	1.8	22.4	1580
3x25 rm	7x2.14	0.9	1.3	1.8	26.4	2190
3x35 rm	7x2.52	0.9	1.4	1.9	29.0	2740
3x50 sm	19x1.83	1.0	1.4	1.9	30.6	3030
3x70 sm	19x2.22	1.1	1.5	2.1	35.0	4050
3x95 sm	19x2.57	1.1	1.6	2.2	38.2	5070
3x120 sm	37x2.10	1.2	1.7	2.3	42.0	6180
3x150 sm	37x2.30	1.4	1.8	2.5	46.6	7460
3x185 sm	37x2.57	1.6	1.9	2.6	50.8	9060

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_m	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	0.9 – 0.7	1.3	1.8	27.8	2420
3x35/16 rm	7x2.52 - 7x1.70	0.9 – 0.7	1.4	1.9	30.2	2960
3x50/25 sm	19x1.83 - 7x2.14	1.0 – 0.9	1.4	2.0	31.6	3340
3x70/35 sm	19x2.22 - 7x2.52	1.1 – 0.9	1.5	2.1	35.0	4430
3x95/50 sm	19x2.57 - 19x1.83	1.1 – 1.0	1.6	2.2	39.2	5580
3x120/70 sm	37x2.08 - 19x2.22	1.2 – 1.1	1.7	2.3	43.0	6960
3x150/70 sm	37x2.30 - 19x2.22	1.4 – 1.1	1.8	2.5	47.6	8240

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_m	mm	mm	mm	mm	Kg/km
4x1.5 rm	7x0.53	0.7	1.2	1.8	14.8	680
4x2.5 rm	7x0.67	0.7	1.2	1.8	16.6	820
4x4 rm	7x0.85	0.7	1.2	1.8	18.2	970
4x6 rm	7x1.04	0.7	1.2	1.8	19.6	1150
4x10 rm	7x1.35	0.7	1.2	1.8	21.6	1420
4x16 rm	7x1.70	0.7	1.2	1.8	24.2	1830
4x25 rm	7x2.14	0.9	1.3	1.9	28.8	2580
4x35 rm	7x2.52	0.9	1.4	2.0	31.8	3250
4x50 sm	19x1.83	1.0	1.4	2.0	32.0	3600
4x70 sm	19x2.22	1.1	1.5	2.1	35.5	4760
4x95 sm	19x2.57	1.1	1.6	2.2	40.0	6100
4x120 sm	37x2.08	1.2	1.7	2.3	43.4	7450

XLPE INSULATED , LEAD SHEATH , ARMOURED PVC SHEATHED CABLE

N2XKYRY , 0.6/1.0 kv



Application : These cables can be used indoors or outdoors in cable ducts, cable trays, conduits or in power and control station at oil, refining and petrochemical industries.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 of IEC 60228 , ISIRI 3084
2) Insulation : Cross-linked polyethylene - XLPE
3) Core identification : colour up to 4 core and black with number printing for 5 core and above.
4) Bedding-1 : Extruded PVC compatible with the operating temperature of the conductor . Insector cables the core covered with one or two layer polypropylene tape.
5) Metal sheath : one layer lead sheathed
6) Bedding-2 : Extruded PVC compatible with the operating temperature of the conductor
7) Armour : Aluminum wire armour for single core and Galvanized steel wire armour for multi core
8) Outer sheath : Polyvinyl chloride -PVC
standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temper ature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 1 or 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant : Acc. IEC 60332-1

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
1x50 rm	19x1.78	1.0	1.2	1.2	1.6	1.8	24.5	1610
1x70 rm	19x2.17	1.1	1.2	1.2	1.6	1.8	27.1	2010
1x95 rm	19x2.52	1.1	1.2	1.2	1.6	1.9	28.6	2350
1x120 rm	37x2.03	1.2	1.3	1.2	1.6	2.0	31.2	2840
1x150 rm	37x2.25	1.4	1.3	1.2	1.6	2.0	33.0	3260
1x185 rm	37x2.52	1.6	1.4	1.2	2.0	2.1	36.4	3990
1x240 rm	37x2.88	1.7	1.5	1.2	2.0	2.2	39.6	4880
1x300 rm	37x3.34	1.8	1.6	1.2	2.0	2.3	42.8	5840
2x1.5 rm	7x0.53	0.7	1.2	1.2	1.2	1.8	19.2	1040
2x2.5 rm	7x0.67	0.7	1.2	1.2	1.2	1.8	20.0	1140
2x4 rm	7x0.85	0.7	1.2	1.2	1.2	1.8	21.2	1290
2x6 rm	7x1.04	0.7	1.2	1.2	1.6	1.8	23.0	1560
2x10 rm	7x1.35	0.7	1.2	1.2	1.6	1.8	25.0	1820
2x16 rm	7x1.70	0.7	1.2	1.2	1.6	1.8	27.2	2170
2x25 rm	7x2.14	0.9	1.3	1.2	1.6	1.9	30.8	2800
2x35 rm	7x2.52	0.9	1.3	1.2	1.6	2.0	33.4	3300

N2XKYRY , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
3x1.5 rm	7x0.53	0.7	1.2	1.2	1.2	1.8	19.1	1050
3x2.5 rm	7x0.67	0.7	1.2	1.2	1.2	1.8	20.5	1200
3x4 rm	7x0.85	0.7	1.2	1.2	1.2	1.8	21.8	1370
3x6 rm	7x1.04	0.7	1.2	1.2	1.6	1.8	23.8	1690
3x10 rm	7x1.35	0.7	1.2	1.2	1.6	1.8	26.0	2030
3x16 rm	7x1.70	0.7	1.2	1.2	1.6	1.9	28.2	2430
3x25 rm	7x2.14	0.9	1.3	1.2	1.6	2.0	32.4	3180
3x35 rm	7x2.52	0.9	1.4	1.2	2.0	2.1	35.8	4050
3x50 sm	19x1.83	1.0	1.4	1.2	2.0	2.2	37.6	4460
3x70 sm	19x2.22	1.1	1.5	1.2	2.0	2.3	41.8	5600
3x95 sm	19x2.57	1.1	1.6	1.3	2.0	2.4	45.2	6800
3x120 sm	37x2.10	1.2	1.7	1.4	2.5	2.6	50.4	8520

SIZE	No. strand x diameter	Insulation thickness	Lead sheath thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	mm	mm	mm	Kg/km
3x25/16 rm	7x2.14 - 7x1.70	0.9 - 0.7	1.3	1.2	1.6	2.0	33.8	3450
3x35/16 rm	7x2.52 - 7x1.70	0.9 - 0.7	1.4	1.2	2.0	2.1	37.0	4330
3x50/25 sm	19x1.83 - 7x2.14	1.0 - 0.9	1.4	1.2	2.0	2.2	38.4	4780
3x70/35 sm	19x2.22 - 7x2.52	1.1 - 0.9	1.5	1.2	2.0	2.3	41.8	5960
3x95/50 sm	19x2.57 - 19x1.83	1.1 - 1.0	1.6	1.3	2.5	2.5	47.4	7800
3x120/70 sm	37x2.08 -19x2.22	1.2 - 1.1	1.7	1.4	2.5	2.6	52.0	9430
4x1.5 rm	7x0.53	0.7	1.2	1.2	1.2	1.8	19.6	1120
4x2.5 rm	7x0.67	0.7	1.2	1.2	1.2	1.8	21.4	1300
4x4 rm	7x0.85	0.7	1.2	1.2	1.6	1.8	23.8	1650
4x6 rm	7x1.04	0.7	1.2	1.2	1.6	1.8	25.2	1870
4x10 rm	7x1.35	0.7	1.2	1.2	1.6	1.8	27.2	2200
4x16 rm	7x1.70	0.7	1.2	1.2	1.6	1.9	30.0	2740
4x25 rm	7x2.14	0.9	1.3	1.2	2.0	2.1	34.4	3880
4x35 rm	7x2.52	0.9	1.4	1.2	2.0	2.2	38.6	4650
4x50 sm	19x1.83	1.0	1.4	1.2	2.0	2.2	38.8	5040
4x70 sm	19x2.22	1.1	1.5	1.2	2.0	2.3	42.3	6350
4x95 sm	19x2.57	1.1	1.6	1.3	2.5	2.5	48.0	8300
4x120 sm	37x2.08	1.2	1.7	1.4	2.5	2.6	52.8	9900
5x1.5 rm	7x0.53	0.7	1.2	1.2	1.2	1.8	21.3	1270
7x1.5 rm	7x0.53	0.7	1.2	1.2	1.2	1.8	22.0	1350
10x1.5 rm	7x0.53	0.7	1.2	1.2	1.6	1.8	26.0	1860
12x1.5 rm	7x0.53	0.7	1.2	1.2	1.6	1.8	26.6	1970
19x1.5 rm	7x0.53	0.7	1.2	1.2	1.6	1.9	29.2	2330
27x1.5 rm	7x0.53	0.7	1.3	1.2	1.6	2.0	33.2	2930
37x1.5 rm	7x0.53	0.7	1.4	1.2	2.0	2.1	37.0	3780
5x2.5 rm	7x0.67	0.7	1.2	1.2	1.2	1.8	22.6	1430
7x2.5 rm	7x0.67	0.7	1.2	1.2	1.6	1.8	24.2	1730
10x2.5 rm	7x0.67	0.7	1.2	1.2	1.6	1.8	27.8	2140
12x2.5 rm	7x0.67	0.7	1.2	1.2	1.6	1.9	28.4	2260
19x2.5 rm	7x0.67	0.7	1.3	1.2	1.6	2.0	31.7	2840
27x2.5 rm	7x0.67	0.7	1.4	1.2	2.0	2.1	36.6	3790
37x2.5 rm	7x0.67	0.7	1.5	1.3	2.0	2.3	40.6	4620

Instrument cables

PE/XLPE OR PVC insulation
300/500 V , 600/1000 V

CU/PE OR XLPE/OSCR/PVC [RE-2Y(ST)Y]
CU/PE OR XLPE/ISCR & OSCR/PVC [RE-2Y(ST)Y-PIMF]
CU/PE OR XLPE/OSCR/PE/SWA/PVC [RE-2Y(ST)2YRY]
CU/PE OR XLPE/ISCR & OSCR/PE/SWA/PVC [RE-2Y(ST)2YRY-PIMF]
CU/PVC/OSCR/PVC [RE-Y(ST)Y]
CU/PVC/ISCR & OSCR/PVC [RE-Y(ST)Y-PIMF]
CU/PVC/OSCR/PVC/SWA/PVC [RE-Y(ST)Y-YRY]
CU/PVC/ISCR & OSCR/PVC/SWA/PVC [RE-Y(ST)YRY-PIMF]

SHAHING CABLE

SINGLE & MULTI-PAIR , PE/XLPE INSULATION COLLECTIVE SCREEN, PVC - SHEATH

RE-2Y(st)Y , 300/500 V

Application : For transmission of analogue and digital signals in instrument and control system.

Specification : BS 5308 , part 1 , type 1

Construction :

1) Conductor : Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation : Polyethylene –PE
3) Core identification : according to BS 5308 part 1
4) Wrapping : 1 or 2 layer of plastic tape
5) Collective screen : One layer aluminum/ polyester tape over copper or tinned copper drain wire , 0.5 mm^2
6) Outer sheath : Polyvinyl chloride –PVC Colour can be supplied on request

Technical data :

1) Temperature : -30°C to +70°C
2) Maximum short circuit temperature : 160°C (5 seconds Max.)
3) Working voltage : 300/500 V
4) Test voltage : 1.0 kv rms or 2.4 kvdc for 1 minutes
5) Conductor resistance : As per class 1 or 2 or 5 of IEC 60228
6) Minimum insulation resistance : 5000 M Ω.km
7) Mutual capacitance at 1.0 kHz : 115 nf/km for one and two pair , 75 nf/km for other cable
8) L/R (ratio) : 25 µH/Ω for 0.5 mm^2 , 1.0 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant : Acc. IEC 60332-1

RE-2Y(st)Y , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	sheath thickness	Overall diameter Approx.	Approx. weight
	mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
0.5 mm^2 (solid)						
	1x2x0.5	1x0.8	0.5	0.8	5.5	35
	2x2x0.5	1x0.8	0.5	0.8	6.8	55
	5x2x0.5	1x0.8	0.5	1.1	10.9	125
	10x2x0.5	1x0.8	0.5	1.2	14.4	215
	15x2x0.5	1x0.8	0.5	1.2	16.5	300
	20x2x0.5	1x0.8	0.5	1.3	18.8	385
	30x2x0.5	1x0.8	0.5	1.3	22.3	545
	50x2x0.5	1x0.8	0.5	1.5	28.5	875
1.0 mm^2 (solid)						
	1x2x1	1x1.13	0.6	0.8	6.6	50
	2x2x1	1x1.13	0.6	0.8	8.0	80
	5x2x1	1x1.13	0.6	1.2	13.5	205
	10x2x1	1x1.13	0.6	1.2	17.7	350
	15x2x1	1x1.13	0.6	1.3	20.6	500
	20x2x1	1x1.13	0.6	1.5	24.0	670
	30x2x1	1x1.13	0.6	1.5	28.5	975
	50x2x1	1x1.13	0.6	2.0	36.6	1580
0.5 mm^2 (flexible)						
	1x2x0.5	16x0.2	0.6	0.8	6.2	45
	2x2x0.5	16x0.2	0.6	0.8	7.6	60
	5x2x0.5	16x0.2	0.6	1.1	12.4	145
	10x2x0.5	16x0.2	0.6	1.2	16.5	240
	15x2x0.5	16x0.2	0.6	1.3	19.2	342
	20x2x0.5	16x0.2	0.6	1.3	21.6	436
	30x2x0.5	16x0.2	0.6	1.5	26.4	645
	50x2x0.5	16x0.2	0.6	1.7	33.4	1020
0.75 mm^2 (flexible)						
	1x2x0.75	24x0.2	0.6	0.8	6.7	50
	2x2x0.75	24x0.2	0.6	0.9	8.4	75
	5x2x0.75	24x0.2	0.6	1.2	13.8	184
	10x2x0.75	24x0.2	0.6	1.3	18.4	330
	15x2x0.75	24x0.2	0.6	1.3	21.0	445
	20x2x0.75	24x0.2	0.6	1.5	24.5	600
	30x2x0.75	24x0.2	0.6	1.7	29.5	840
	50x2x0.75	24x0.2	0.6	2.0	37.6	1380
1.5 mm^2 (stranded)						
	1x2x1.5	7x0.53	0.6	0.8	7.5	70
	2x2x1.5	7x0.53	0.6	0.9	9.4	120
	5x2x1.5	7x0.53	0.6	1.2	15.6	280
	10x2x1.5	7x0.53	0.6	1.3	21.0	520
	15x2x1.5	7x0.53	0.6	1.5	24.5	740
	20x2x1.5	7x0.53	0.6	1.5	28.0	940
	30x2x1.5	7x0.53	0.6	1.7	33.8	1380
	50x2x1.5	7x0.53	0.6	2.0	43.2	2250

MULTI-PAIR , PE INSULATION, INDIVIDUAL & COLLECTIVE SCREEN , PVC-SHEATHED CABLES

RE-2Y(st)Y - PIMF / 300/500 v

Application: For analogue and digital signals transmission in instrument and controsystems.l

Specification: BS 5308 , part 1 , type 1

Construction:
1) Conductor: Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyethylene (PE)
3) Core identification: according to BS 5308 part 1
4) Pair screen : One layer aluminum/polyester tape over copper or tinned copper drain wire ,0.5 mm^2
5) Wrapping: 1 or 2 layer of plastic tape
6) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire ,0.5 mm^2
7) outer sheath: Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:
1) Temperature: -30°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1 or 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 5000 MΩ.km
7) Mutual capacitance at 1.0 kHz: 115 nf/km for one and two pair, 75 nf/km for other cable
8) L/R (ratio): 25 μH/Ω for 0.5 mm^2, 1.0 mm^2 - 40 μH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

* XLPE insulation can be supplied on request.

RE-2Y(st)Y - PIMF , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	sheath thickness	Overall diameter Approx.	Approx. weight
	mm²	N x d_{mm}	mm	mm	mm	Kg/km
0.5 mm² (solid)						
	2x2x0.5	1x0.8	0.5	0.9	9.7	95
	5x2x0.5	1x0.8	0.5	1.2	13.0	180
	10x2x0.5	1x0.8	0.5	1.2	17.0	310
	15x2x0.5	1x0.8	0.5	1.3	19.8	440
	20x2x0.5	1x0.8	0.5	1.3	22.4	560
	30x2x0.5	1x0.8	0.5	1.5	27.2	820
	50x2x0.5	1x0.8	0.5	2.0	35.0	1380
1.0 mm² (solid)						
	2x2x1	1x1.13	0.6	1.1	12.0	135
	5x2x1	1x1.13	0.6	1.2	15.4	250
	10x2x1	1x1.13	0.6	1.3	20.5	450
	15x2x1	1x1.13	0.6	1.5	24.1	680
	20x2x1	1x1.13	0.6	1.7	27.8	880
	30x2x1	1x1.13	0.6	2.0	33.8	1290
	50x2x1	1x1.13	0.6	2.2	42.8	2060
0.5 mm² (flexible)						
	2x2x0.5	16x0.2	0.6	1.1	11.2	110
	5x2x0.5	16x0.2	0.6	1.2	14.4	200
	10x2x0.5	16x0.2	0.6	1.3	19.2	350
	15x2x0.5	16x0.2	0.6	1.5	22.6	510
	20x2x0.5	16x0.2	0.6	1.5	25.7	620
	30x2x0.5	16x0.2	0.6	1.7	31.0	900
	50x2x0.5	16x0.2	0.6	2.2	40.0	1540
0.75 mm² (flexible)						
	2x2x0.75	24x0.2	0.6	1.1	12.1	130
	5x2x0.75	24x0.2	0.6	1.2	15.8	240
	10x2x0.75	24x0.2	0.6	1.3	21.0	422
	15x2x0.75	24x0.2	0.6	1.5	24.6	615
	20x2x0.75	24x0.2	0.6	1.5	28.0	810
	30x2x0.75	24x0.2	0.6	2.0	34.5	1190
	50x2x0.75	24x0.2	0.6	2.2	43.5	1880
1.5 mm² (stranded)						
	2x2x1.5	7x0.53	0.6	1.2	14.2	180
	5x2x1.5	7x0.53	0.6	1.3	18.4	340
	10x2x1.5	7x0.53	0.6	1.5	25.6	640
	15x2x1.5	7x0.53	0.6	1.7	30.2	920
	20x2x1.5	7x0.53	0.6	1.7	33.4	1170
	30x2x1.5	7x0.53	0.6	2.0	40.2	1725
	50x2x1.5	7x0.53	0.6	2.2	51.0	2770

SINGLE & MULTI-PAIR , PE INSULATION, COLLECTIVE SCREEN , ARMOURED , PVC-SHEATHED CABLES

RE-2Y(st)2YRY / 300/500 v

Application : For analogue and digital signals transmission in instrument and controlsystems.

Specification : BS 5308 , part 1 , type 2

Construction:
1) Conductor: Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyethylene (PE)
3) Core identification: according to BS 5308 part 1
4) Wrapping: 1 or 2 layer of plastic tape
5) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire , 0.5 mm^2
6) Bedding: polyethylene (PE)
7) Armour: galvanized round steel wire
8) outer sheath: Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:
1) Temperature: -40°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1 or 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 5000 MΩ.km
7) Mutual capacitance at 1.0 kHz: 115 nf/km for one and two pair, 75 nf/km for other cable
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2, 1.0 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

* XLPE insulation can be supplied on request.

RE-2Y(st)2YRY , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
	mm^2	N x $d_{n,n}$	mm	mm	mm	mm	mm	Kg/km
0.5 mm^2 (solid)								
	1x2x0.5	1x0.8	0.5	0.8	0.9	1.3	9.9	190
	2x2x0.5	1x0.8	0.5	0.8	0.9	1.3	11.2	240
	5x2x0.5	1x0.8	0.5	1.1	0.9	1.4	15.6	410
	10x2x0.5	1x0.8	0.5	1.2	1.2	1.6	20.2	700
	15x2x0.5	1x0.8	0.5	1.2	1.2	1.6	22.4	840
	20x2x0.5	1x0.8	0.5	1.3	1.6	1.7	25.6	1170
	30x2x0.5	1x0.8	0.5	1.3	1.6	1.8	29.2	1470
	50x2x0.5	1x0.8	0.5	1.5	1.6	2.0	35.8	2030
1.0 mm^2 (solid)								
	1x2x1	1x1.13	0.6	0.8	0.9	1.3	11.0	220
	2x2x1	1x1.13	0.6	0.8	0.9	1.4	12.6	310
	5x2x1	1x1.13	0.6	1.2	1.2	1.5	19.2	650
	10x2x1	1x1.13	0.6	1.2	1.2	1.7	23.8	940
	15x2x1	1x1.13	0.6	1.3	1.6	1.8	27.6	1355
	20x2x1	1x1.13	0.6	1.5	1.6	1.8	30.6	1630
	30x2x1	1x1.13	0.6	1.5	1.6	2.0	35.8	2098
	50x2x1	1x1.13	0.6	2.0	2.0	2.2	45.4	3886
0.5 mm^2 (flexible)								
	1x2x0.5	16x0.2	0.6	0.8	0.9	1.3	10.6	210
	2x2x0.5	16x0.2	0.6	0.8	0.9	1.3	12.2	255
	5x2x0.5	16x0.2	0.6	1.1	0.9	1.5	17.4	470
	10x2x0.5	16x0.2	0.6	1.2	1.2	1.6	22.4	800
	15x2x0.5	16x0.2	0.6	1.3	1.6	1.7	26.0	1150
	20x2x0.5	16x0.2	0.6	1.3	1.6	1.8	28.6	1320
	30x2x0.5	16x0.2	0.6	1.5	1.6	1.9	33.6	1740
	50x2x0.5	16x0.2	0.6	1.7	2.0	2.1	41.8	2650
0.75 mm^2 (flexible)								
	1x2x0.75	24x0.2	0.6	0.8	0.9	1.3	11.2	230
	2x2x0.75	24x0.2	0.6	0.9	0.9	1.4	13.2	296
	5x2x0.75	24x0.2	0.6	1.2	1.2	1.6	17.6	650
	10x2x0.75	24x0.2	0.6	1.3	1.6	1.7	25.4	1100
	15x2x0.75	24x0.2	0.6	1.3	1.6	1.8	28.2	1320
	20x2x0.75	24x0.2	0.6	1.5	1.6	1.9	31.6	1590
	30x2x0.75	24x0.2	0.6	1.7	2.0	2.0	37.5	2030
	50x2x0.75	24x0.2	0.6	2.0	2.5	2.3	47.4	3220
1.5 mm^2 (stranded)								
	1x2x1.5	7x0.53	0.6	0.8	0.9	1.4	12.2	270
	2x2x1.5	7x0.53	0.6	0.9	0.9	1.4	14.0	360
	5x2x1.5	7x0.53	0.6	1.2	1.2	1.6	21.5	810
	10x2x1.5	7x0.53	0.6	1.3	1.6	1.8	27.8	1390
	15x2x1.5	7x0.53	0.6	1.5	1.6	1.9	31.8	1760
	20x2x1.5	7x0.53	0.6	1.5	2.0	2.0	36.0	2310
	30x2x1.5	7x0.53	0.6	1.7	2.0	2.1	42.0	3050
	50x2x1.5	7x0.53	0.6	2.0	2.5	2.4	53.0	4800

MULTI-PAIR , PE INSULATION , INDIVIDUAL & COLLECTIVE SCREEN , ARMOUR , PVC-SHEATHED CABLES

RE-2Y(st)2YRY-PIMF / 300/500 v

Application: For analogue and digital signals transmission in instrument and controlsystems.

Specification: BS 5308, part 1 , type 2

Construction:
1) Conductor: Plain annealed copper as per class 1, 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyethylene (PE)
3) Core identification: according to BS 5308 part 1
4) Wrapping: 1 layer of plastic tape
5) Pair screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5mm^2
6) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5 mm^2
7) Bedding: Polyethylene (PE)
8) Armour: galvanized round steel wire
9) outer sheath: Polyvinyl chloride (PVC) Colour can be supplied on request

Technical data:
1) Temperature: -30°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1, 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 5000 MΩ.km
7) Mutual capacitance at 1.0 kHz: 115 nf/km for one and two pair, 75 nf/km for other cables
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2,1 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1 z

RE-2Y(st)2YRY , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
	mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
0.5 mm^2 (solid)								
	2x2x0.5	1x0.8	0.5	0.9	0.9	1.4	14.4	350
	5x2x0.5	1x0.8	0.5	1.2	1.2	1.5	18.6	610
	10x2x0.5	1x0.8	0.5	1.2	1.2	1.7	22.6	880
	15x2x0.5	1x0.8	0.5	1.3	1.6	1.7	26.5	1270
	20x2x0.5	1x0.8	0.5	1.3	1.6	1.8	29.2	1480
	30x2x0.5	1x0.8	0.5	1.5	1.6	1.9	34.2	1920
	50x2x0.5	1x0.8	0.5	2.0	2.0	2.2	43.5	3080
1.0 mm^2 (solid)								
	2x2x1	1x1.13	0.6	1.1	0.9	1.5	16.6	440
	5x2x1	1x1.13	0.6	1.2	1.2	1.6	21.2	760
	10x2x1	1x1.13	0.6	1.3	1.6	1.8	27.2	1300
	15x2x1	1x1.13	0.6	1.5	1.6	1.9	31.4	1670
	20x2x1	1x1.13	0.6	1.7	2.0	2.0	35.6	2250
	30x2x1	1x1.13	0.6	2.0	2.0	2.2	42.6	2960
	50x2x1	1x1.13	0.6	2.2	2.5	2.5	52.5	4650
0.5 mm^2 (flexible)								
	2x2x0.5	16x0.2	0.6	1.1	0.9	1.5	16.0	400
	5x2x0.5	16x0.2	0.6	1.2	1.2	1.6	20.4	690
	10x2x0.5	16x0.2	0.6	1.3	1.6	1.8	26.3	1180
	15x2x0.5	16x0.2	0.6	1.5	1.6	1.8	29.5	1440
	20x2x0.5	16x0.2	0.6	1.5	1.6	1.9	32.8	1700
	30x2x0.5	16x0.2	0.6	1.7	2.0	2.1	39.4	2420
	50x2x0.5	16x0.2	0.6	2.2	2.5	2.4	50.0	3950
0.75 mm^2 (flexible)								
	2x2x0.75	24x0.2	0.6	1.1	0.9	1.5	17.0	440
	5x2x0.75	24x0.2	0.6	1.2	1.2	1.6	21.5	760
	10x2x0.75	24x0.2	0.6	1.3	1.6	1.7	27.6	1295
	15x2x0.75	24x0.2	0.6	1.5	1.6	1.9	31.6	1680
	20x2x0.75	24x0.2	0.6	1.5	1.6	1.9	35.0	2220
	30x2x0.75	24x0.2	0.6	2.0	2.0	2.2	43.0	2900
	50x2x0.75	24x0.2	0.6	2.2	2.5	2.5	53.6	4420
1.5 mm^2 (stranded)								
	2x2x1.5	7x0.53	0.6	1.2	1.2	1.6	19.5	640
	5x2x1.5	7x0.53	0.6	1.3	1.6	1.7	24.5	1080
	10x2x1.5	7x0.53	0.6	1.5	1.6	1.9	31.0	1620
	15x2x1.5	7x0.53	0.6	1.7	2.0	2.0	36.0	2280
	20x2x1.5	7x0.53	0.6	1.7	2.0	2.1	40.2	2740
	30x2x1.5	7x0.53	0.6	2.0	2.5	2.5	48.8	4080
	50x2x1.5	7x0.53	0.6	2.2	2.5	2.7	59.6	5770

SINGLE & MULTI-PAIR , PVC INSULATION COLLECTIVE SCREEN, PVC - SHEATHED CABLES

RE-Y(st)Y / 300/500 v

Application: For analogue and digital signals transmission in instrument and controlsystems

Specification: BS 5308, part 2 , type 1

Construction:
1) Conductor: Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: according to BS 5308 part 2
4) Wrapping: 1 or 2 layer of plastic tape
5) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5 mm^2
6) outer sheath: Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:
1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1 or 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)Y , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	sheath thickness	Overall diameter Approx.	Approx. weight
	mm^2	$N \times d_{mm}$	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)						
	1x2x0.5	16x0.2	0.6	0.8	6.2	40
	2x2x0.5	16x0.2	0.6	0.8	7.6	70
	5x2x0.5	16x0.2	0.6	1.1	12.4	160
	10x2x0.5	16x0.2	0.6	1.2	16.5	280
	15x2x0.5	16x0.2	0.6	1.3	19.2	390
	20x2x0.5	16x0.2	0.6	1.3	21.8	450
	30x2x0.5	16x0.2	0.6	1.5	26.4	730
	50x2x0.5	16x0.2	0.6	1.7	33.5	1160
0.75 mm^2 (flexible)						
	1x2x0.75	24x0.2	0.6	0.8	6.7	50
	2x2x0.75	24x0.2	0.6	0.8	8.2	80
	5x2x0.75	24x0.2	0.6	1.2	14.0	200
	10x2x0.75	24x0.2	0.6	1.3	18.4	350
	15x2x0.75	24x0.2	0.6	1.3	21.2	490
	20x2x0.75	24x0.2	0.6	1.5	24.5	660
	30x2x0.75	24x0.2	0.6	1.7	29.6	960
	50x2x0.75	24x0.2	0.6	2.0	37.6	1540
1.5 mm^2 (stranded)						
	1x2x1.5	7x0.53	0.6	0.8	7.5	70
	2x2x1.5	7x0.53	0.6	0.9	9.4	130
	5x2x1.5	7x0.53	0.6	1.2	15.6	300
	10x2x1.5	7x0.53	0.6	1.3	21.0	540
	15x2x1.5	7x0.53	0.6	1.5	24.6	810
	20x2x1.5	7x0.53	0.6	1.7	28.0	1030
	30x2x1.5	7x0.53	0.6	2.0	33.8	1510
	50x2x1.5	7x0.53	0.6	2.2	42.2	2470

MULTI-PAIR , PVC INSULATION , INDIVIDUAL & COLLECTIVE SCREEN, PVC-SHEATHED CABLES

RE-Y(st)Y-PIMF / 300/500 v

Application: For analogue and digital signals transmission in instrument and control systems

Specification: BS 5308, part 2 , type 1

Construction:
1) Conductor: Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: according to BS 5308 part 2
4) Wrapping: 1 layer of plastic tape
5) Pair screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5 mm^2
6) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire , 0.5 mm^2
7) outer sheath: Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:
1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1 or 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2, 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)Y-PIMF , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	sheath thickness	Overall diameter Approx.	Approx. weight
	mm^2	N x d_{nn}	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)						
	2x2x0.5	16x0.2	0.6	1.1	11.2	120
	5x2x0.5	16x0.2	0.6	1.2	14.6	210
	10x2x0.5	16x0.2	0.6	1.3	19.2	370
	15x2x0.5	16x0.2	0.6	1.5	22.5	540
	20x2x0.5	16x0.2	0.6	1.5	26.0	690
	30x2x0.5	16x0.2	0.6	1.7	31.2	950
	50x2x0.5	16x0.2	0.6	2.0	35.5	1650
0.75 mm^2 (flexible)						
	2x2x0.75	24x0.2	0.6	1.1	12.2	130
	5x2x0.75	24x0.2	0.6	1.2	16.0	250
	10x2x0.75	24x0.2	0.6	1.3	21.2	450
	15x2x0.75	24x0.2	0.6	1.5	25.0	650
	20x2x0.75	24x0.2	0.6	1.7	28.6	850
	30x2x0.75	24x0.2	0.6	2.0	34.8	1260
	50x2x0.75	24x0.2	0.6	2.2	44.0	2000
1.5 mm^2 (stranded)						
	2x2x1.5	7x0.53	0.6	1.2	13.8	190
	5x2x1.5	7x0.53	0.6	1.3	17.8	360
	10x2x1.5	7x0.53	0.6	1.5	24.2	670
	15x2x1.5	7x0.53	0.6	1.7	28.4	970
	20x2x1.5	7x0.53	0.6	2.0	32.0	1250
	30x2x1.5	7x0.53	0.6	2.2	39.0	1840
	50x2x1.5	7x0.53	0.6	2.4	49.2	2940

MULTI-CORE , PVC INSULATION, COLLECTIVE SCREEN PVC-SHEATHED CABLES

RE-Y(st)Y / 300/500 v

Application: For analogue and digital signals transmission in instrument and control systems

Specification: BS 5308, part 2 , type 1

Construction:
1) Conductor: Plain annealed copper as per class 1 or 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: Yellow with both printed numbers and written word in black (1-40) up to 40 cores and black with both printed numbers and written word in yellow (1-40) up to 80 cores.
4) Wrapping : 1 or 2 layer of plastic tape
5) Collective screen : One layer aluminum/polyester tape over copper or tinned copper drain wire , 0.5 mm^2
6) outer sheath : Polyvinyl chloride (PVC). Colour can be supplied on request

Technical data:
1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 1 or 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2, 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)Y , 300/500 V

	No. of core	No. strand x diameter	Insulation thickness	sheath thickness	Overall diameter Approx.	Approx. weight
	mm^2	N x d_{mm}	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)						
	2x0.5	16x0.2	0.6	0.8	6.2	50
	3x0.5	16x0.2	0.6	0.8	6.6	60
	4x0.5	16x0.2	0.6	0.8	7.2	70
	5x0.5	16x0.2	0.6	0.8	7.6	86
	10x0.5	16x0.2	0.6	1.1	11.2	150
	15x0.5	16x0.2	0.6	1.2	12.8	205
	20x0.5	16x0.2	0.6	1.2	14.2	260
	30x0.5	16x0.2	0.6	1.3	17.0	370
	40x0.5	16x0.2	0.6	1.3	18.8	480
	50x0.5	16x0.2	0.6	1.5	22.0	570
0.75 mm^2 (flexible)						
	2x0.75	24x0.2	0.6	0.8	6.7	60
	3x0.75	24x0.2	0.6	0.8	7.2	70
	4x0.75	24x0.2	0.6	0.8	7.8	80
	5x0.75	24x0.2	0.6	0.8	8.0	96
	10x0.75	24x0.2	0.6	1.1	12.2	195
	15x0.75	24x0.2	0.6	1.2	13.6	270
	20x0.75	24x0.2	0.6	1.2	15.6	330
	30x0.75	24x0.2	0.6	1.4	18.6	500
	40x0.75	24x0.2	0.6	1.4	20.6	630
	50x0.75	24x0.2	0.6	1.6	23.3	740
1.5 mm^2 (stranded)						
	2x1.5	7x0.53	0.6	0.8	8.0	90
	3x1.5	7x0.53	0.6	0.9	8.2	100
	4x1.5	7x0.53	0.6	0.9	9.0	130
	5x1.5	7x0.53	0.6	0.9	9.7	154
	10x1.5	7x0.53	0.6	1.2	14.2	290
	15x1.5	7x0.53	0.6	1.3	18.0	480
	20x1.5	7x0.53	0.6	1.3	18.6	530
	30x1.5	7x0.53	0.6	1.5	21.4	750
	40x1.5	7x0.53	0.6	1.6	24.4	980
	50x1.5	7x0.53	0.6	1.8	26.6	1230

SINGLE & MULTI-PAIR , PVC INSULATION COLLECTIVE SCREEN ARMOURED PVC-SHEATHED CABLES

RE-Y(st)YRY / 300/500 v

Application For analogue and digital signals transmission in instrument and controlsystems.

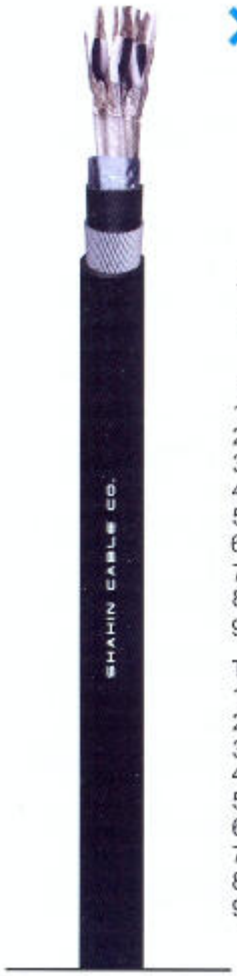
Specification: BS 5308, part 2 , type 2

Construction:
1) Conductor: Plain annealed copper as per class 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: according to BS 5308 part 2
4) Wrapping: 1 or 2 layer of plastic tape
5) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5 mm^2
6) Bedding : Polyvinyl chloride (PVC).
7) Armour: galvanized round steel wire
8) outer sheath: Polyvinyl chloride (PVC) Colour can be supplied on request

Technical data:
1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)YRY , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
	mm^2	N x d_{nn}	mm	mm	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)								
	1x2x0.5	16x0.2	0.6	0.8	0.9	1.3	10.6	230
	2x2x0.5	16x0.2	0.6	0.8	0.9	1.3	11.6	260
	5x2x0.5	16x0.2	0.6	1.1	0.9	1.5	17.2	490
	10x2x0.5	16x0.2	0.6	1.2	1.2	1.6	22.4	840
	15x2x0.5	16x0.2	0.6	1.3	1.6	1.7	26.0	1230
	20x2x0.5	16x0.2	0.6	1.3	1.6	1.8	28.5	1450
	30x2x0.5	16x0.2	0.6	1.5	1.6	1.9	33.4	1900
	50x2x0.5	16x0.2	0.6	1.7	2.0	2.1	41.8	2920
0.75 mm^2 (flexible)								
	1x2x0.75	24x0.2	0.6	0.8	0.9	1.3	11.2	250
	2x2x0.75	24x0.2	0.6	0.8	0.9	1.4	12.4	300
	5x2x0.75	24x0.2	0.6	1.2	1.2	1.5	19.5	670
	10x2x0.75	24x0.2	0.6	1.3	1.6	1.7	25.0	1190
	15x2x0.75	24x0.2	0.6	1.3	1.6	1.8	28.0	1400
	20x2x0.75	24x0.2	0.6	1.5	1.6	1.8	31.2	1720
	30x2x0.75	24x0.2	0.6	1.7	2.0	2.0	37.8	2500
	50x2x0.75	24x0.2	0.6	2.0	2.5	2.2	47.5	3920
1.5 mm^2 (stranded)								
	1x2x1.5	7x0.53	0.6	0.8	0.9	1.4	12.2	290
	2x2x1.5	7x0.53	0.6	0.9	0.9	1.4	13.4	390
	5x2x1.5	7x0.53	0.6	1.2	1.2	1.6	21.5	850
	10x2x1.5	7x0.53	0.6	1.3	1.6	1.8	27.8	1460
	15x2x1.5	7x0.53	0.6	1.5	1.6	1.9	31.6	1900
	20x2x1.5	7x0.53	0.6	1.5	1.6	2.0	35.0	2250
	30x2x1.5	7x0.53	0.6	1.7	2.0	2.1	42.0	3310
	50x2x1.5	7x0.53	0.6	2.2	2.5	2.4	53.0	5280



MULTI-PAIR , PVC INSULATION , INDIVIDUAL & COLLECTIVE SCREEN , ARMOUR , PVC-SHEATHED CABELS

RE-Y(st)YRY-PIMF / 300/500 v

Application: For analogue and digital signals transmission in instrument and control systems.

Specification: BS 5308, part 2 , type 2

Construction:
1) Conductor: Plain annealed copper as per class 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: according to BS 5308 part 2
4) Pair screen : One layer aluminum/polyester tape over copper or tinned copperdrain wire, 0.5 mm^2
5) Wrapping: 1 layer of plastic tape
6) Collective screen: One layer aluminum/polyester tape over copper or tinned copperdrain wire, 0.5 mm^2
7) Bedding : Polyvinyl chloride (PVC)
8) Armour: galvanized round steel wire
9) outer sheath: Polyvinyl chloride (PVC) Colour can be supplied on request

Technical data:
1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2, 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)YRY-PIMF , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
	mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)								
	2x2x0.5	16x0.2	0.6	1.1	0.9	1.5	16.0	460
	5x2x0.5	16x0.2	0.6	1.2	1.2	1.6	20.4	760
	10x2x0.5	16x0.2	0.6	1.3	1.6	1.8	26.4	1420
	15x2x0.5	16x0.2	0.6	1.5	1.6	1.8	29.6	1580
	20x2x0.5	16x0.2	0.6	1.5	1.6	1.9	32.8	1870
	30x2x0.5	16x0.2	0.6	1.7	2.0	2.1	39.4	2800
	50x2x0.5	16x0.2	0.6	2.2	2.5	2.4	49.6	4540
0.75 mm^2 (flexible)								
	2x2x0.75	24x0.2	0.6	1.1	0.9	1.5	17.2	480
	5x2x0.75	24x0.2	0.6	1.2	1.2	1.6	21.6	840
	10x2x0.75	24x0.2	0.6	1.3	1.6	1.8	27.8	1390
	15x2x0.75	24x0.2	0.6	1.5	1.6	1.9	31.2	1740
	20x2x0.75	24x0.2	0.6	1.7	2.0	2.0	36.0	2450
	30x2x0.75	24x0.2	0.6	2.0	2.0	2.2	42.4	3200
	50x2x0.75	24x0.2	0.6	2.2	2.5	2.5	53.0	4960
1.5 mm^2 (stranded)								
	2x2x1.5	7x0.53	0.6	1.2	1.6	1.6	19.2	760
	5x2x1.5	7x0.53	0.6	1.3	1.2	1.7	23.6	1170
	10x2x1.5	7x0.53	0.6	1.5	1.6	1.9	31.0	1840
	15x2x1.5	7x0.53	0.6	1.7	2.0	2.0	36.0	2580
	20x2x1.5	7x0.53	0.6	1.7	2.0	2.1	39.6	3100
	30x2x1.5	7x0.53	0.6	2.0	2.5	2.4	48.4	4660
	50x2x1.5	7x0.53	0.6	2.2	2.5	2.7	59.6	6320

MULTI-CORE , PVC INSULATION, COLLECTIVE SCREEN ARMOUR , PVC-SHEATHED CABELS

RE-Y(st)YRY / 300/500 v

Application: For analogue and digital signals transmission in instrument and control systems.

Specification: BS 5308, part 2 , type 2

Construction:

1) Conductor:Plain annealed copper as per class 2 or 5 of IEC 60228 or BS 6360
2) Insulation: Polyvinyl chloride (PVC)
3) Core identification: Yellow with both printed numbers and written word in black (1-40) up to 40cores and black with both printed numbers and written word in yellow (1-40)up to 80 cores.
4) Wrapping: 1 or 2 layer of plastic tape
5) Collective screen: One layer aluminum/polyester tape over copper or tinned copper drain wire, 0.5 mm^2
6) outer sheath: Polyvinyl chloride (PVC).
7) Armour: galvanized round steel wire
8) outer sheath: Polyvinyl chloride (PVC) Colour can be supplied on request

Technical data:

1) Temperature: -25°C to +70°C
2) Maximum short circuit temperature: 160°C (5 seconds Max.)
3) Working voltage: 300/500 V
4) Conductor resistance: As per class 2 or 5 of IEC 60228 or BS 6360
5) Test voltage: 1.0 kv rms or 2.4 kvdc for 1 minute
6) Minimum insulation resistance: 25 MΩ.km
7) Mutual capacitance at 1.0 kHz: 250 nf/km
8) L/R (ratio): 25 µH/Ω for 0.5 mm^2, 0.75 mm^2 - 40 µH/Ω for 1.5 mm^2
9) Flame retardant: Acc. IEC 60332-1

RE-Y(st)YRY , 300/500 V

	No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
	mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
0.5 mm^2 (flexible)								
	2x0.5	16x0.2	0.6	0.8	0.9	1.3	11.2	210
	3x0.5	16x0.2	0.6	0.8	0.9	1.3	11.4	250
	5x0.5	16x0.2	0.6	0.9	0.9	1.3	12.2	340
	10x0.5	16x0.2	0.6	1.1	0.9	1.5	16.0	450
	15x0.5	16x0.2	0.6	1.2	1.2	1.5	18.2	620
	20x0.5	16x0.2	0.6	1.2	1.2	1.6	20.0	770
	30x0.5	16x0.2	0.6	1.3	1.6	1.7	23.4	1040
	40x0.5	16x0.2	0.6	1.3	1.6	1.7	25.6	1300
	50x0.5	16x0.2	0.6	1.5	1.6	1.8	28.8	1580
0.75 mm^2 (flexible)								
	2x0.75	24x0.2	0.6	0.8	0.9	1.3	11.6	240
	3x0.75	24x0.2	0.6	0.8	0.9	1.3	11.8	280
	5x0.75	24x0.2	0.6	0.9	1.9	1.3	12.8	390
	10x0.75	24x0.2	0.6	1.1	0.9	1.5	17.0	520
	15x0.75	24x0.2	0.6	1.2	1.2	1.6	19.2	720
	20x0.75	24x0.2	0.6	1.2	1.2	1.6	21.4	880
	30x0.75	24x0.2	0.6	1.3	1.6	1.7	24.6	1210
	40x0.75	24x0.2	0.6	1.4	1.6	1.8	27.5	1520
	50x0.75	24x0.2	0.6	1.5	1.6	2.0	30.2	1840
1.5 mm^2 (stranded)								
	2x1.5	7x0.53	0.6	0.8	0.9	1.4	12.6	280
	3x1.5	7x0.53	0.6	0.9	0.9	1.4	13.0	330
	5x1.5	7x0.53	0.6	1.0	1.2	1.4	17.2	580
	10x1.5	7x0.53	0.6	1.2	1.2	1.6	19.6	800
	15x1.5	7x0.53	0.6	1.2	1.6	1.7	24.4	1200
	20x1.5	7x0.53	0.6	1.3	1.6	1.7	24.5	1320
	30x1.5	7x0.53	0.6	1.4	1.6	1.8	30.2	1780
	40x1.5	7x0.53	0.6	1.5	1.6	1.9	32.0	2120
	50x1.5	7x0.53	0.6	1.7	2.0	2.1	35.2	2640

Fire resistance cable

Mica glass tape + XLPE insulation

CU/MGT/XLPE/LSFOH [N2XH]

CU/MGT/XLPE/LSFOH/SWA/LSFOH [N2XHRH]

CU/MGT/XLPE/ISCR&OSCR/LSFOH [RE-2X(st)H-PIMF]

CU/MGT/XLPE/ISCR&OSCR/LSFOH/SWA/LFOH [RE-2X(st)HRH-PIMF]

SHAHIN CABLE

MICA GLASS TAPE,XLPE INSULATED,LSFOH SHEATED FIRE RESISTANCE CABLE

N2XH , 0.6/1.0 kv

Application : These cables can be used for electricity supply and control in public network and industrial plants or public buildings, where people are potentially endangered in case of fire and where , for a defined period of time, the continuity of control and energy supply is of vital necessity.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper or tinned copper stranded as per class 2 of IEC 60228
2) flame barrier : Mica glass tape
3) Insulation : Cross-linked polyethylene -XLPE
4) Core identification : colour for power , black with numbered for control cables
5) Inner sheath : extruded filler of low smoke, halogen free, flame retardant -LSFOH
6) Outer sheath : extruded of low smoke, halogen free, flame retardant -LSFOH
   standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant test : Acc. IEC 60332-1
7) Flame propagation test : Acc. IEC 60332-3
8) Fire resistance test : Acc. IEC 60331-21
9) Smoke density test : Acc. IEC 61034
10) Halogen content test : Acc. IEC 60754-2

N2XH , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
2x1.5 rm	7x0.53	0.7	1.8	12.4	170
2x2.5 rm	7x0.67	0.7	1.8	13.2	230
2x4 rm	7x0.85	0.7	1.8	14.4	282
2x6 rm	7x1.04	0.7	1.8	15.4	344
3x1.5 rm	7x0.53	0.7	1.8	13.0	222
3x2.5 rm	7x0.67	0.7	1.8	13.9	264
3x4 rm	7x0.85	0.7	1.8	15.2	332
3x6 rm	7x1.04	0.7	1.8	16.4	404
4x1.5 rm	7x0.53	0.7	1.8	14.0	242
4x2.5 rm	7x0.67	0.7	1.8	15.0	288
4x4 rm	7x0.85	0.7	1.8	16.5	378
4x6 rm	7x1.04	0.7	1.8	17.7	472
5x1.5 rm	7x0.53	0.7	1.8	15.2	286
5x2.5 rm	7x0.67	0.7	1.8	16.3	344
5x4 rm	7x0.85	0.7	1.8	18.0	424
5x6 rm	7x1.04	0.7	1.8	19.4	555

SIZE	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	Kg/km
7x1.5 rm	7x0.53	0.7	1.8	16.0	300
10x1.5 rm	7x0.53	0.7	1.8	20.0	412
12x1.5 rm	7x0.53	0.7	1.8	20.6	450
19x1.5 rm	7x0.53	0.7	1.8	24.3	605
27x1.5 rm	7x0.53	0.7	1.8	28.8	796
37x1.5 rm	7x0.53	0.7	1.8	32.2	1010
48x1.5 rm	7x0.53	0.7	1.8	37.0	1250
7x2.5 rm	7x0.67	0.7	1.8	17.2	382
10x2.5 rm	7x0.67	0.7	1.8	21.6	514
12x2.5 rm	7x0.67	0.7	1.8	22.4	600
19x2.5 rm	7x0.67	0.7	1.8	26.4	810
27x2.5 rm	7x0.67	0.7	1.8	31.5	1080
37x2.5 rm	7x0.67	0.7	1.8	35.4	1370
48x2.5 rm	7x0.67	0.7	1.8	40.3	1746

MICA GLASS TAPE , XLPE INSULATED , ARMOURED LSFOH SHEATED FIRE RESISTANCE CABLE

N2XHRH , 0.6/1.0 kv

Application : These cables can be used for electricity supply and control in public network and industrial plants or public buildings, where people are potentially endangered in case of fire and where , for a defined period of time, the continuity of control and energy supply is of vital necessity.

Specification : IEC 60502-1 , ISIRI 3569-1

Construction :

1) Conductor : Plain annealed copper or tinned copper stranded as per class 2 of IEC 60228
2) flame barrier : Mica glass tape
3) Insulation : Cross-linked polyethylene -XLPE
4) Core identification : colour or black with numbered for control cables
5) Bedding : extruded of low smoke, halogen free, flame retardant -LSFOH.
6) Armour : Galvanized steel wire armour
7) Outer sheath : extruded of low smoke, halogen free, flame retardant -LSFOH standard colour is black, but any other colour can be supplied on request.

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 0.6/1.0 kv
4) Conductor resistance : As per class 2 of IEC 60228
5) Test voltage : 3.5 kv rms or 8.4 kvdc for 5 minutes
6) Flame retardant test : Acc. IEC 60332-1
7) Flame propagation test : Acc. IEC 60332-3
8) Fire resistance test : Acc. IEC 60331-21
9) Smoke density test : Acc. IEC 61034
10) Halogen content test : Acc. IEC 60754-2

N2XHRH , 0.6/1.0 kv

SIZE	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d...	mm	mm	mm	mm	Kg/km
2x1.5 rm	7x.053	0.7	0.9	1.8	15.4	390
2x2.5 rm	7x0.67	0.7	0.9	1.8	16.0	420
2x4 rm	7x0.85	0.7	0.9	1.8	17.4	500
2x6 rm	7x1.04	0.7	1.2	1.8	18.4	570
3x1.5 rm	7x0.53	0.7	0.9	1.8	16.0	410
3x2.5 rm	7x0.67	0.7	0.9	1.8	16.8	465
3x4 rm	7x0.85	0.7	1.2	1.8	18.4	580
3x6 rm	7x1.04	0.7	1.2	1.8	19.5	670
4x1.5 rm	7x0.53	0.7	0.9	1.8	16.8	570
4x2.5 rm	7x0.67	0.7	1.2	1.8	17.8	526
4x4 rm	7x0.85	0.7	1.2	1.8	19.5	670
4x6 rm	7x1.04	0.7	1.2	1.8	21.6	900

SIZE	No. strand x diameter	Insulation thickness	Armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d...	mm	mm	mm	mm	Kg/km
5x1.5 rm	7x0.53	0.7	0.9	1.8	18.2	540
7x1.5 rm	7x0.53	0.7	1.2	1.8	19.5	650
10x1.5 rm	7x0.53	0.7	1.2	1.8	24.3	830
12.1.5 rm	7x0.53	0.7	1.6	1.8	25.0	1070
19x1.5 rm	7x0.53	0.7	1.6	1.8	28.5	1380
27x1.5 rm	7x0.53	0.7	1.6	1.9	34.0	1980
37x1.5 rm	7x0.53	0.7	2.0	1.9	38.4	2520
48x1.5 rm	7x0.53	0.7	2.0	2.0	43.6	3040
5x2.5 rm	7x0.67	0.7	0.9	1.8	19.3	620
7x2.5 rm	7x0.67	0.7	1.2	1.8	21.8	830
10x2.5 rm	7x0.67	0.7	1.6	1.8	26.4	1140
12x2.5 rm	7x0.67	0.7	1.6	1.8	27.2	1250
19x2.5 rm	7x0.67	0.7	1.6	1.8	32.6	1840
27x2.5 rm	7x0.67	0.7	2.0	1.8	37.6	2520
37x2.5 rm	7x0.67	0.7	2.0	1.9	42.0	3100
48x2.5 rm	7x0.67	0.7	2.0	2.1	48.5	4140

MULTI-PAIR , MICA GLASS TAPE, XLPE INSULATION INDIVIDUAL&COLLECTIVE SCREEN, LSFOH SHEATH

RE-2X(st)H-PIMF , 300/500 V

Application : these cables can be used for transmission of analogue and digital signals in instrument and control systems,

Specification : gen. to BS 5308 , part 1 , type 1

Construction :

1) Conductor : Plain annealed copper or tinned copper stranded as per class 2 of IEC 60228
2) flame barrier : Mica glass tape
3) Insulation : Cross-linked polyethylene -XLPE
4) Core identification : according to BS 5308 part 1
5) Pair screen : One layer aluminum/polyester tape over copper or tinned copper drain wire,0.5 mm^2
6) Wrapping : 1 layer of plastic tape
7) Collective screen : One layer aluminum/polyester tape over copper or tinned copper drain wire , 0.5 mm^2
8) Outer sheath : extruded of low smoke, halogen free, flame retardant –LSFOH
   colour is black, or blue for intrinsically safety systems

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 300/500 V
4) Test voltage : 1.0 kv rms or 2.4 kvdc for 1 minutes
5) Conductor resistance : As per class 2 of IEC 60228
6) Minimum insulation resistance : 5000 MΩ.km
7) Mutual capacitance at 1.0 kHz : 115 nf/km for one and two pair , 75 nf/km for other cable
8) L/R (ratio) : 25 µH/Ω for 0.75 mm^2 , 1.0 mm^2 - 40 µH/Ω for 1.5 mm^2 - 70 µH/Ω for 2.5 mm^2
9) Flame retardant : Acc. IEC 60332-1
10) Flame propagation test : Acc. IEC 60332-3
11) Fire resistance test : Acc. IEC 60331-21
12) Smoke density test : Acc. IEC 61034
13) Halogen content test : Acc. IEC 60754-2

RE-2X(st)H-PIMF , 300/500 V

No. of pair	No. strand x diameter	Insulation thickness	sheath thickness	Approx. Overall diameter	Approx. weight
mm²	N x d_{mm}	mm	mm	mm	Kg/km
0.75 mm (stranded)					
1x2x0.75	7x0.37	0.6	0.9	7.6	78
2x2x0.75	7x0.37	0.6	0.9	12.6	144
5x2x0.75	7x0.37	0.6	1.2	16.8	262
10x2x0.75	7x0.37	0.6	1.4	22.4	446
15x2x0.75	7x0.37	0.6	1.5	26.0	660
20x2x0.75	7x0.37	0.6	1.6	29.6	850
30x2x0.75	7x0.37	0.6	1.7	36.0	1240
1.5 mm (stranded)					
1x2x1	7x0.43	0.6	1.0	8.2	86
2x2x1	7x0.43	0.6	1.1	13.0	148
5x2x1	7x0.43	0.6	1.2	16.4	266
10x2x1	7x0.43	0.6	1.5	23.2	492
15x2x1	7x0.43	0.6	1.6	26.8	718
20x2x1	7x0.43	0.6	1.7	31.2	940
30x2x1	7x0.43	0.6	2.0	36.2	1380
1.5 mm (stranded)					
1x2x1.5	7x0.53	0.6	1.0	8.8	104
2x2x1.5	7x0.53	0.6	1.2	15.2	218
5x2x1.5	7x0.53	0.6	1.4	19.6	360
10x2x1.5	7x0.53	0.6	1.6	27.0	670
15x2x1.5	7x0.53	0.6	1.8	32.2	990
20x2x1.5	7x0.53	0.6	1.9	35.6	1240
30x2x1.5	7x0.53	0.6	2.2	43.0	1840
2.5 mm (stranded)					
1x2x2.5	7x0.67	0.7	1.2	10.2	116
2x2x2.5	7x0.67	0.7	1.4	16.8	244
5x2x2.5	7x0.67	0.7	1.5	20.8	400
10x2x2.5	7x0.67	0.7	1.7	29.8	740
15x2x2.5	7x0.67	0.7	1.9	35.0	1100
20x2x2.5	7x0.67	0.7	2.1	40.6	1380
30x2x2.5	7x0.67	0.7	2.4	47.4	2060

MULTI-PAIR , MICA GLASS TAPE, XLPE INSULATION,INDIVIDUAL & COLLECTIVE SCREEN,ARMOURED, LSFOH SHEATH

RE-2X(st)HRH-PIMF , 300/500 V

Application : these cables can be used for transmission of analogue and digital signals in instrument and control systems,

Specification : gen. to BS 5308 , part 1 , type 2

Construction :

1) Conductor : Plain annealed copper or tinned copper stranded as per class 2 of IEC 60228
2) flame barrier : Mica glass tape
3) Insulation : Cross-linked polyethylene -XLPE
4) Core identification : according to BS 5308 part 1
5) Pair screen : One layer aluminum/polyester tape over copper or tinned copper drain wire,0.5 mm^2
6) Collective screen : One layer aluminum/polyester tape over copper or tinned copper drain wire , 0.5 mm^2
7) Wrapping : 1 layer of plastic tape
8) Bedding : extruded of low smoke, halogen free, flame retardant –LSFOH
9) Armour : galvanized round steel wire
10) Outer sheath : extruded of low smoke, halogen free, flame retardant –LSFOH colour is black, or blue for intrinsically safety systems

Technical data :

1) Temperature : -30°C to +90°C
2) Maximum short circuit temperature : 250°C (5 seconds Max.)
3) Working voltage : 300/500 V
4) Test voltage : 1.0 kv rms or 2.4 kvdc for 1 minutes
5) Conductor resistance : As per class 2 of IEC 60228
6) Minimum insulation resistance : 5000 MΩ.km
7) Mutual capacitance at 1.0 kHz : 115 nf/km for one and two pair , 75 nf/km for other cable
8) L/R (ratio) : 25 µH/Ω for 0.75 mm^2 , 1.0 mm^2 - 40 µH/Ω for 1.5 mm^2 - 70 µH/Ω for 2.5 mm^2
9) Flame retardant : Acc. IEC 60332-1
10) Flame propagation test : Acc. IEC 60332-3
11) Fire resistance test : Acc. IEC 60331-21
12) Smoke density test : Acc. IEC 61034
13) Halogen content test : Acc. IEC 60754-2

RE-2X(st)HRH-PIMF , 300/500 V

No. of pair	No. strand x diameter	Insulation thickness	Bedding thickness	armour wire diameter	sheath thickness	Approx. Overall diameter	Approx. weight
mm^2	N x d_{mm}	mm	mm	mm	mm	mm	Kg/km
0.75 mm (stranded)							
1x2x0.75	7x0.37	0.6	0.9	0.9	1.4	12.2	208
2x2x0.75	7x0.37	0.6	0.9	0.9	1.4	18.2	464
5x2x0.75	7x0.37	0.6	1.2	1.2	1.5	23.0	830
10x2x0.75	7x0.37	0.6	1.2	1.2	1.7	29.5	1420
15x2x0.75	7x0.37	0.6	1.3	1.6	1.7	33.8	1850
20x2x0.75	7x0.37	0.6	1.3	1.6	1.8	37.5	2440
30x2x0.75	7x0.37	0.6	1.5	1.6	1.9	46.0	3180
1.0 mm (stranded)							
1x2x1	7x0.43	0.6	1.1	0.9	1.4	13.0	222
2x2x1	7x0.43	0.6	1.1	0.9	1.5	17.7	484
5x2x1	7x0.43	0.6	1.2	1.2	1.6	22.6	860
10x2x1	7x0.43	0.6	1.3	1.6	1.8	29.1	1460
15x2x1	7x0.43	0.6	1.5	1.6	1.9	33.5	1880
20x2x1	7x0.43	0.6	1.7	2.0	2.0	38.0	2470
30x2x1	7x0.43	0.6	2.0	2.0	2.2	45.0	3250
1.5 mm (stranded)							
1x2x1.5	7x0.53	0.6	1.1	0.9	1.4	13.5	330
2x2x1.5	7x0.53	0.6	1.1	0.9	1.5	20.8	710
5x2x1.5	7x0.53	0.6	1.2	1.2	1.6	25.4	1160
10x2x1.5	7x0.53	0.6	1.3	1.6	1.7	33.4	1820
15x2x1.5	7x0.53	0.6	1.5	1.6	1.9	38.2	2500
20x2x1.5	7x0.53	0.6	1.5	1.6	1.9	42.8	2980
30x2x1.5	7x0.53	0.6	2.0	2.0	2.2	51.8	4480
2.5 mm (stranded)							
1x2x2.5	7x0.67	0.7	1.2	1.2	1.5	14.5	412
2x2x2.5	7x0.67	0.7	1.2	1.2	1.6	20.6	790
5x2x2.5	7x0.67	0.7	1.3	1.6	1.7	26.4	1280
10x2x2.5	7x0.67	0.7	1.5	1.6	1.9	35.4	2140
15x2x2.5	7x0.67	0.7	1.7	2.0	2.0	41.0	3010
20x2x2.5	7x0.67	0.7	1.7	2.0	2.1	48.0	3880
30x2x2.5	7x0.67	0.7	2.0	2.5	2.5	56.6	5580

› High frequency coaxial cable

HIGH FREQUENCY COAXIAL CABLES

50 , 75 Ω

Application : Radio frequency cable (RFC)are manufactured for application in high quality communication apparatus.

Specification : JIS 3501

Construction :

1) Inner conductor : Plain annealed copper or tinned copper
2) Insulation : Polyethylene (PE) or foam polyethylene
3) Outer conductor(Shield) : Plain annealed copper or tinned copper
4) outer sheath : Polyvinyl chloride (PVC). Or polyethylene (PE). Colour can be supplied on request

Technical data :

1) Temperature : -25°C to +70°C
2) Conductor resistance : acc. JIS 3501
3) Test voltage : acc. JIS 3501
4) Minimum insulation resistance : acc. JIS 3501
5) Mutual capacitance at 1.0 kHz : acc. JIS 3501
6) Attenuation : acc. JIS 3501

Symbol	Inner conductor	Insulation thickness	Braid shield Inner	Braid shield Outer	sheath thickness	Approx. Overall diameter	Approx. weight
	N x d_{mm}	mm	N x d_{mm}	N x d_{mm}	mm	mm	Kg/km
0.8D - 2V	1 x 0.26	0.27	16x3x0.10	–	0.35	2.0	8
1.5D - 2V	7 x 0.18	0.53	16x5x0.10	–	0.4	2.9	11
2.5D - 2V	1 x 0.8	0.95	16x7x0.12	–	0.5	4.3	35
3D - 2V	7 x 0.32	0.02	24x5x0.14	–	0.8	5.3	44
5D - 2V	1 x 1.4	1.7	24x7x0.14	–	0.9	7.3	80
5D - 2W	1 x 1.4	1.7	24x7x0.14	24x7x0.14	0.9	8.0	110
8D - 2V	7 x 0.8	2.7	24x8x0.18	–	1.2	11.1	180
10D - 2V	1 x 2.9	3.4	24x10x0.20	–	1.2	13.1	260
1.5C - 2V	1 x 0.26	0.67	16x5x0.10	–	0.4	2.9	13
2.5C - 2V	1 x 1.4	1.0	16x6x0.10	–	0.5	4.0	25
3C - 2V	1 x 0.5	1.3	24x5x0.14	–	0.8	5.4	42
5C - 2V	1 x 0.8	2.05	24x7x0.14	–	0.9	7.4	74
5C - 2W	1 x 0.8	2.05	24x7x0.14	24x7x0.14	1.0	8.3	120
7C - 2V	7 x 0.4	3.05	24x8x0.18	–	1.1	10.4	140
10C - 2V	7 x 0.5	3.95	24x10x0.20	–	1.3	13.0	220

SHAHIN CABLE

Aluminum Conductors Steel Reinforced

Aluminum Conductors Steel Reinforced

Acc . to BS 215-2 - ASTM B 232

Application : Used as MV and HV overhead transmission lines and also used for transporting electrical power over long distances .

Construction :

Conductor : ACSR is a conductor composed of one or more layers of hard drawn aluminium wire stranded with a galvanized steel core . The core may be single or stranded wire , depending on the size .

Grease : ACSR conductors may also be greased if required for anti-corrosive purposes .

Packing :

The ACSR conductors are delivered in non returnable woods drums .

Overhead Lines

Code Name	Nominal Cross Section	No. & Wire Diameter		Overal Diameter	Approx . Conductor Weight		MAx . Dc Resistance at 20 c	Breaking Load	Cable Length
		AL	Steel		AL	Steel			
Name	mm2	mm	mm	mm	kg/km	kg/km	Ω/km	kN	m
Weasel	31.6	6x2.59	1x2.59	7.8	87	41	0.9077	11.4	2000
Fox	36.7	6x2.79	1x2.79	8.4	101	48	0.7827	13.2	2000
Mink	63.1	6x3.66	1x3.66	11.0	173	82	0.4541	21.8	2000
Hare	105.0	6x4.72	1x4.72	14.2	288	137	0.2733	36.0	2000
Dog	105.0	6x4.72	7x1.57	14.2	288	106	0.2733	32.7	2000
Hyena	106.0	7x4.39	7x1.93	14.6	290	160	0.2712	40.9	2000
Tiger	131.2	30x2.36	7x2.36	16.5	362	240	0.2204	58.0	1500
Leopard	131.4	6x5.28	7x1.57	15.8	360	132	0.2185	40.7	2000
Cougar	131.5	18x3.05	1x3.05	15.3	362	57	0.2210	29.8	2000
Coyote	131.7	26x2.54	7x1.91	15.9	365	157	0.2187	46.4	2000
Wolf	158.0	30.2.59	7x2.59	18.1	437	289	0.1828	69.2	1500
Dingo	158.7	18x3.35	1x1.35	16.8	437	69	0.1815	35.7	1500
Lynx	183.5	30x2.79	7x2.79	19.5	507	335	0.1576	79.8	1500
Hawk	241.7	26x3.44	7x2.68	21.8	670	308	0.1199	86.9	1500

The above data is approximate and subject to manufacturing tolerance

Delivery lenght tolerance is ± 5%

Other sizes and muliple conductor cables are available upon request

› Technical Specification

CONDUCTOR RESISTANCE VALUE ACCORDING TO CROSS-SECTION

at 20° C VDE 0295 or IEC 60228

Table 1

POWER CABLE AND WIRE					WELDING CABLES			
CONDUCRE DIMENSION	Cu conductor				Al conductor		Cu conductor	
	Tinned Cu wire		Plain Cu Wire		Plain Al wire		Plain Wire	Tinned Wire
Cross-section mm	Class 1 and 2 OHM/km	Class 5 and 6 OHM/km	Class 1 and 2 OHM/km	Class 5 and 6 OHM/km	Class 1 OHM/km	Class 2 OHM/km	OHM/km	OHM/km
0,05		~380,0	-	~360,0	-	-	-	-
0,08		~240,0	-	~230,0	-	-	-	-
0,09		~230,0	-	~215,0	-	-	-	-
0,14		~140,0	-	~138,0	-	-	-	-
0,22		~96,8	-	~95.0	-	-	-	-
0,25		~79,3	-	~77,8	-	-	-	-
0.34		~57,1	-	~56,0	-	-	-	-
0,5	36,7	40,1	36,0	39,0	-	-	-	-
0,75	24,8	26,7	24,5	26,0	-	-	-	-
1,0	18,2	20,0	18,1	19,5	-	-	-	-
1,5	12,2	13,7	12,1	13,3	-	-	-	-
2,5	7,56	8,21	7,41	7,98	-	-	-	-
4,0	4,70	5,09	4,61	4,95	-	-	-	-
6,0	3,11	3,39	3,08	3,30	-	-	-	-
10,0	1,84	1,95	1,83	1,91	-	-	-	-
16,0	1,16	1,24	1,15	1,21	-	1,91	1,16	1,19
25,0	0,734	0,795	0,727	0,780	1,20	1,20	0,758	0,780
35,0	0,529	0,565	0,524	0,554	0,868	0,868	0,536	0,552
50,0	0,391	0,393	0,387	0,386	0,641	0,641	0,379	0,390
70,0	0270	0,277	0,268	0,272	0,443	0,443	0,268	0,276
95,0	0,195	0,210	0,193	0,206	0,320	0,320	0,198	0,204
120,0	0,154	0,164	0,153	0,161	0,253	0,253	0,155	0,159
150,0	0,126	0,132	0,124	0,129	0,206	0,206	0,125	0,129
185,0	0,100	0,108	0,099	0,106	0,164	0,164	0,102	0,105
240,0	0,0762	0,0817	0,0754	0,0801	0,125	0,125	-	-
300,0	0,0607	0,0654	0,0601	0,0641	0,100	0,100	-	-
400,0	0,0475	0,0495	0,0470	0,0486	-	0,0778	-	-
500,0	0,369	0,0391	0,0366	0,0384	-	0,0605	-	-
630,0	0,0286	0,0292	0,0283	0,0287	-	0,0469	-	-

Class 1 = for single-wire conductors
Class 2 = for multiply wire conductors
Class 5 = for finaly standard wire conductors
Class 6 = for extera standard wire conductors

CURRENT RATING (AC) - U_0 / U , 0.6 /1KV

Copper conductors laid in air

Table 2

nominal cross sectional area	(1)		(2)			
nom.	pvc	XLPE	pvc	XLPE	pvc	XLPE
(mm^2)	(A)	(A)	(A)	(A)	(A)	(A)
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	89
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649
400	843	1061	597	761	646	734
500	994	1254	663	860	747	827
630	1180	1486	—	—	858	934
800	1396	1751	—	—	971	—
1000	1620	2044	—	—	1078	—

1) Crrent in DC citcuits with return conductor far away.
2) For auxiliary and multicore cables with 4-cores fully loaded.

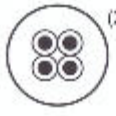
Basic assumption and conditions of installation:

Ambient temperature:	30 °C
Distance between cables:	2 x overall diameter
Loading factor:	1.0
Distance between cables and walls, ground ceiling:	2 cm
Distance between systems (one upon another):	30 cm
Distance between cables (side by side):	2 x overall diameter
Distance between cables(one upon another): (VDE 0298)	2 x overall diameter

CURRENT RATING (AC) - U_o / U , 0.6 / 1KV

Copper conductors direct in ground

Table 3

nominal cross sectional area	 (1)		  (2)			
nom	pvc	XLPE	pvc	XLPE	pvc	pvc
(mm^2)	(A)	(A)	(A)	(A)	(A)	(A)
1.5	41	48	27	31	30	33
2.5	55	63	36	40	39	42
4	71	82	46	52	50	54
6	90	102	58	64	62	67
10	124	136	78	86	83	89
16	160	176	101	111	107	115
25	208	229	132	145	138	148
35	250	275	159	174	164	177
50	296	326	188	206	195	209
70	365	400	232	254	238	256
95	438	480	280	305	286	307
120	501	548	318	348	325	349
150	563	616	359	392	365	393
185	639	699	406	444	413	445
240	746	815	473	517	479	516
300	845	924	535	585	539	581
400	975	1065	613	671	614	662
500	1125	1228	684	756	693	749
630	1304	1424	—	—	777	843
800	1507	1638	—	—	859	935
1000	1715	1870	—	—	936	1022

1) Crrent in DC citcuits with return conductor far away.
2) For auxiliary and multicore cables with 4-cores fully loaded.

Basic assumption and conditions of installation:

Thermal resistivity of soil:	1.0 Km/W
Standard ground temperature:	25 °C
Loading factor:	0.7
Depth of burial: (VDE 0298)	0.7-1.2 m
No. of cable systems:	1

L.V. POWER AND CONTROL CABLES

Current Rating Factors

Group Rating Factors for More than one Multicore armoured or Unarmoured Cables
Laid on Trays, Clipped to the surface, run in Trench etc.
commond for Installation In Air, Ground, Duct, Trench Etc.

TABLE- 5

No. of load conductors	2	3	4	5	6	8	10	12	14	16	18	20
Correction factor	0.8	0.7	0.65	0.6	0.57	0.52	0.48	0.45	0.43	0.41	0.39	0.38

Where spacing between adjacent cables is more than twice their overall diametrs, no correction fact or need to be applied

Group Rating Factors for more than Three Single Core cables
Laid in Coduits buried in Concrete, on surface of Wall, in Trunking, Racks, etc
Common For Installation In Air, Ground, Duct, Trench Etc

TABLE- 6

No. of load conductors	4	6	8	10	12	16	20	24	28	32	36	40
Correction factor	0.8	0.69	0.62	0.59	0.55	0.51	0.48	0.43	0.41	0.39	0.38	0.36

Rating Factors for variation in Ambient Temperature for Cables
Laid in Air
for installation in Air Only

TABLE- 7

Ambient temperature C	25	30	35	40	45	50	55
PVC insulated cables	1.49	1.40	1.31	1.22	1.11	1.0	0.86
XLPE insulated cables	1.27	1.22	1.17	1.12	1.06	1.0	0.94

Rating Factors for variation in Ground Temperature for Cables
Laid Direct in Grround or in Ducts
For installation in Ground and Duct Only

TABLE- 8

Ground temperature C	15	20	25	30	35	40	45
PVC insulated cables	1.25	1.19	1.12	1.06	1.0	0.92	0.85
XLPE insulated cables	1.16	1.13	1.08	1.03	1.0	0.95	0.90

Common for Groundr and Duct

L.V. Power and Control Cables

Current Rating Factors

Rating Factors for Depths of Laying for Cables
Laid Direct in Grround or in Ducts
For installation in Ground and Duct Only

TABLE- 9

Depths of Laying	Cables Laid Direct in Ground			Cables Laid in Ducts	
metro	Upto 50 mm^2	to mm^2 to 300 mm^2	Above 300 mm^2	Single core	Multicore
0.5	1.000	1.000	1.000	1.000	1.000
0.6	0.990	0.985	0.971	0.980	0.990
0.75	0.976	0.965	0.952	0.958	0.987
0.8	0.971	0.960	0.945	0.950	0.979
1.0	0.951	0.930	0.924	0.930	0.960
1.25	0.941	0.920	0.894	0.900	0.950
1.5	0.931	0.901	0.874	0.891	0.940
1.75	0.921	0.890	0.864	0.880	0.940
2.0	0.910	0.880	0.854	0.871	0.930
2.5	0.900	0.871	0.844	0.860	0.930
3.0 or more	0.891	0.849	0.824	0.851	0.920

Group Rating Factors for more than one Twin or Multicore or Ucarmoured Cables in horizontal formation
Laide in Direct ground
for Installation In Ground only

TABLE- 10

No.of cables	2	3	4	5	6	7	8	9	10	11	12
Cables laid touching	0.8/1	0.7	0.63	0.59	0.55	0.52	0.50	0.48	0.47	0.45	0.44
Cables laid15 cm apart	0.87	0.78	0.74	0.70	0.68	0.66	0.64	0.63	0.62	0.61	0.60
Cables laid 30 cm apart	0.91	0.84	0.81	0.78	0.77	0.75	0.75	0.74	0.73	0.73	0.72
Cables laid 45 cm apartd	0.93	0.88	0.86	0.84	0.83	0.82	0.81	0.81	0.80	0.80	0.80
Cables laid 60 cm apartd	0.95	0.90	0.89	0.87	0.87	0.86	0.86	0.85	0.85	0.85	0.84

Rating factors for laying in ground only

L.V. POWER AND CONTROL CABLES

Current Rating Factors

Rating Factors for Varition in Thermal Resistivity of soil for Two or Three Single-core Cables Laid Direct in the Grround
For installation in Ground Only

TABLE- 11

Nominal Area of Conductor mm²	Thermal Resistivity of Soil in Km/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.21	1.16	1.11	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
70	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
95	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
120	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
150	1.22	1.16	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.63	0.59
185	1.22	1.17	1.12	1.07	1.0	0.91	0.81	0.73	0.68	0.62	0.59
240	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.68	0.62	0.59
300	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.68	0.62	0.59
400	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.62	0.58
500	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.62	0.58
630	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67	0.61	0.58
800	1.23	1.17	1.12	1.07	1.0	0.91	0.80	0.72	0.66	0.61	0.58
1000	1.25	1.18	1.12	1.07	1.0	0.91	0.80	0.72	0.66	0.61	0.58

Rating Factors for Varition in Thermal Resistivity of soil for Two or Multi -core Cables Laid Direct in the Grround
For installation in Ground Only

TABLE- 12

Nominal Area of Conductor mm²	Thermal Resistivity of Soil in Km/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
1.5/2.5	1.12	1.09	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.70	0.66
4	1.13	1.10	1.07	1.05	1.0	0.94	0.85	0.79	0.74	0.69	0.65
6	1.14	1.10	1.07	1.05	1.0	0.93	0.85	0.79	0.74	0.68	0.64
10	1.15	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.67	0.63
16	1.16	1.12	1.08	1.05	1.0	0.93	0.84	0.77	0.72	0.66	0.62
25	1.17	1.13	1.09	1.05	1.0	0.93	0.83	0.77	0.71	0.65	0.61
35	1.17	1.13	1.09	1.06	1.0	0.92	0.83	0.76	0.71	0.65	0.61
50	1.17	1.13	1.09	1.06	1.0	0.92	0.83	0.76	0.71	0.65	0.61
70	1.18	1.14	1.09	1.06	1.0	0.92	0.83	0.75	0.70	0.64	0.60
95	1.18	1.14	1.09	1.06	1.0	0.92	0.83	0.75	0.70	0.64	0.60
120	1.19	1.14	1.10	1.06	1.0	0.92	0.82	0.75	0.69	0.63	0.59
150	1.19	1.14	1.10	1.06	1.0	0.92	0.82	0.75	0.69	0.63	0.59
185	1.19	1.14	1.10	1.06	1.0	0.92	0.81	0.74	0.69	0.63	0.59
240	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59
300	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59
400	1.20	1.15	1.10	1.07	1.0	0.92	0.81	0.74	0.69	0.63	0.59

L.V. POWER AND CONTROL CABLES

Current Rating Factors

Rating Factors for Varition in Thermal Resistivity of soil for Two or Single-core Cables in Ducts
For installation in Ducts Only

TABLE- 13

Nominal Area of Conductor mm²	Thermal Resistivity of Soil in Km/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.08	1.06	1.04	1.03	1.0	0.96	0.90	0.85	0.81	0.77	0.74
70	1.08	1.06	1.05	1.03	1.0	0.96	0.90	0.84	0.80	0.76	0.73
95	1.08	1.07	1.05	1.03	1.0	0.96	0.89	0.84	0.80	0.75	0.72
120	1.09	1.07	1.05	1.03	1.0	0.95	0.89	0.83	0.79	0.75	0.71
150	1.09	1.07	1.05	1.03	1.0	0.95	0.88	0.83	0.79	0.74	0.71
185	1.09	1.07	1.05	1.03	1.0	0.95	0.88	0.83	0.78	0.74	0.70
240	1.10	1.08	1.05	1.04	1.0	0.95	0.88	0.82	0.78	0.73	0.70
300	1.10	1.08	1.06	1.04	1.0	0.95	0.87	0.82	0.77	0.72	0.69
400	1.11	1.08	1.06	1.04	1.0	0.95	0.87	0.82	0.77	0.72	0.68
500	1.12	1.08	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.71	0.68
630	1.12	1.09	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.71	0.67
800	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.71	0.67
1000	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.70	0.66

Rating Factors for Varition in Thermal Resistivity of soil for Two or Single-core Cables in Ducts
For installation in Ducts Only

TABLE- 14

Nominal Area of Conductor mm²	Thermal Resistivity of Soil in Km/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.11	1.08	1.06	1.04	1.0	0.94	0.87	0.82	0.77	0.73	0.69
70	1.12	1.09	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.72	0.68
95	1.12	1.09	1.06	1.04	1.0	0.94	0.87	0.81	0.76	0.72	0.68
120	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.72	0.67
150	1.13	1.10	1.07	1.04	1.0	0.94	0.86	0.80	0.75	0.71	0.67
185	1.13	1.10	1.07	1.04	1.0	0.93	0.86	0.79	0.75	0.70	0.67
240	1.14	1.11	1.07	1.04	1.0	0.93	0.86	0.79	0.74	0.70	0.66
300	1.14	1.11	1.08	1.05	1.0	0.93	0.85	0.79	0.74	0.69	0.65
400	1.14	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.68	0.65
500	1.15	1.11	1.08	1.05	1.0	0.93	0.85	0.78	0.73	0.68	0.64
630	1.15	1.12	1.09	1.05	1.0	0.93	0.84	0.78	0.72	0.68	0.64
800	1.16	1.12	1.09	1.05	1.0	0.93	0.84	0.77	0.72	0.67	0.64
1000	1.16	1.13	1.09	1.05	1.0	0.92	0.84	0.77	0.71	0.67	0.63

L.V. POWER AND CONTROL CABLES

Current Rating Factors

Rating Factors for Varition in Thermal Resistivity of soil for Twin or Multi-Core cables
Laid in Single Way Ducts

TABLE- 15

Nominal Area of Conductor mm²	Thermal Resistivity of Soil in Km/W										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
1.5/2.5	1.04	1.03	1.02	1.02	1.00	0.98	0.94	0.91	0.88	0.86	0.83
4	1.04	1.04	1.03	1.02	1.00	0.97	0.94	0.90	0.87	0.85	0.82
6	1.05	1.04	1.03	1.02	1.00	0.97	0.93	0.90	0.86	0.84	0.81
10	1.05	1.04	1.03	1.02	1.00	0.97	0.93	0.89	0.86	0.83	0.80
16	1.06	1.04	1.03	1.02	1.00	0.97	0.92	0.88	0.85	0.82	0.79
25	1.06	1.05	1.03	1.02	1.00	0.96	0.92	0.88	0.84	0.82	0.78
35	1.06	1.05	1.03	1.02	1.00	0.96	0.92	0.87	0.83	0.81	0.77
50	1.07	1.05	1.03	1.02	1.00	0.96	0.91	0.87	0.83	0.80	0.77
70	1.07	1.05	1.04	1.02	1.00	0.96	0.91	0.86	0.82	0.79	0.76
95	1.07	1.05	1.04	1.02	1.00	0.96	0.91	0.86	0.82	0.79	0.76
120	1.08	1.06	1.04	1.03	1.00	0.95	0.90	0.85	0.81	0.78	0.74
150	1.09	1.06	1.04	1.03	1.00	0.95	0.90	0.85	0.80	0.77	0.73
185	1.09	1.07	1.05	1.03	1.00	0.95	0.89	0.84	0.80	0.76	0.72
240	1.09	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.79	0.85	0.71
300	1.10	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.78	0.75	0.71
400	1.10	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.78	0.75	0.71

TECHNICAL INFORMATION METAL PHYSICAL SPECIFICATION

metal	Special weight	Elasticity force	Specific heat	Thermal conductivity	Linear expansion constant per centigrade	Electrical resistivity	Electrical conductivity	Melting point
	g/cm^3	Kg/cm^2	$Cal/g/^\circ c$	$Cal/cm^2/sec/^\circ c/cm$			%	$^\circ c$
Aluminum	2.71	19	0.220	0.520	24×10^{-6}	2.790	61	660
Antimony	6.69	-	0.050	0.042	12×10^{-6}	42	4.1	630
Brass(70.30)	8.53	37.86	0.092	0.260	20×10^{-6}	6.90	-	130
Chromium	6.93	-	0.11	-	11×10^{-6}	2.60	66	1615
Constantan	8.89	-	0.099	0.054	-	49	3.5	1280
Copper(soft)	8.9	21.35-28.47	0.092	0.92	29×10^{-6}	1.72	100	1083
Copper(hard)	8.9	35.58-49.82	0.092	0.92	17×10^{-6}	1.77	97	1083
Iron	7.63-7.94	28.5-35.6	0.11	0.14	49×10^{-6}	20	8.6	1530
Lead	1.35	2.07	0.031	0.083	17×10^{-6}	22	2.8	327
Molybdenum	8.98-10.5	-	0.065	0.35	12×10^{-6}	5.20	30	2620
Nickel	8.58-8.98	110	0.105	0.140	19×10^{-6}	7.80	22	1455
Silver	10.42-10.58	29.9	0.056	1	17×10^{-6}	1.64	1.5	960
Low carbon alloy	2.78	35.6-56.94	0.11	0.11	11×10^{-6}	23	7.5	1510
High carbon alloy	2.78	49.9-256	0.11	0.11	13×10^{-6}	24	7.2	1500
Tin	7	3.2	0.054	0.16	25×10^{-6}	11.50	15	232
Tungsten	18.6-19.10	42	0.034	0.4	43×10^{-6}	5.50	31	2370
zine	6.89-7.22	4.98-21.40	0.093	0.270	26×10^{-6}	5.70	30	420

L.V. Power and Control Cables

CORE IDENTIFICATION OF CABLES

ACC . IEC 60227-1

Num Of Core	Cable With Green/Yellow Core	Cable Without Green/Yellow Core
1	no preferred colour scheme	no preferred colour scheme
2	no preferred colour scheme	no preferred colour scheme
3	green/yellow, brown, blue	black, blue, brown
4	green/yellow, black, blue, brown	black, blue, brown, black
5	green/yellow, black, blue, brown, black	black, blue, brown ,black, black
6 And Over	green/ yellow additional cores black and numbered	black and numbered

ACC. BS 6346

Num Of Core	Colour Of Core
1	red or black
2	red,black
3	red,yellow,blue
4	red,yellow,blue,black
5	red,yellow,blue,black,green/yellow
6 and over	green / yellow additional cores black and numbered

L.V. Power and Control Cables

CORE IDENTIFICATION OF CABLES

ACC . VED 0293

Num Of Core	Cable With Green/Yellow Core	Cable Without Green/Yellow Core
Cables for Fixed installation		
1	green/yellow	black, (other colours)
2	green/yellow, black	brown, blue
3	green/yellow, black , blue	black, blue, brown
4	green/yellow, black, blue, brown	black, blue, brown, black
5	green/yellow, black, blue, brown, black	black, blue, brown ,black, black
6 And Over	green/ yellow additional cores black and numbered	black and numbered

Flexible Cables

Num Of Core	Cable With Green/Yellow Core	Cable Without Green/Yellow Core
1	-	black
2	-	black , blue
3	green / yellow, brown, blue	black , blue, brown
4	green / yellow, brown, blue, brown	black , blue, brown, black
5	green / yellow, brown, blue, brown, black	black, blue, brown, black, black
6 and over	green / yellow additional cores black and numbered	black and number

L.V. POWER AND CONTROL CABLES

Instrumentation Cable Solutions

Colour Coding
As per BS 5308 part 1

Two-pair unscreened cables are cabled in quad formation and color coded in clockwise order of rotation, Black, blue, Green, Brown.

All other cables up to 50 paris conform to the following coding

Pair Number	A wire	B wire	Pair Number	A wire	B wire
1	Black	Blue	26	white	Yellow
2	black	Green	27	Red	Yellow
3	blue	Green	28	Orange	Yellow
4	black	Brown	29	Black	Grey
5	blue	Brown	30	Blue	Grey
6	Green	Brown	31	Green	Grey
7	Black	White	32	Brown	Grey
8	Blue	White	33	White	Grey
9	Green	White	34	Red	Grey
10	Brown	White	35	Orange	Grey
11	Black	Red	36	Yellow	Grey
12	Blue	Red	37	Black	Violet
13	Green	Red	38	Blue	Violet
14	Brown	Red	39	Green	Violet
15	White	Red	40	Brown	Violet
16	black	Orange	41	White	Violet
17	blue	Orange	42	Red	Violet
18	Green	Orange	43	Orange	Violet
19	Brown	Orange	44	Yellow	Violet
20	White	Orange	45	Grey	Violet
21	Red	Orange	46	Black	Turquoise
22	Black	Yellow	47	Blue	Turquoise
23	Blue	Yellow	48	Green	Turquoise
24	Green	Yellow	49	Brown	Turquoise
25	Brown	Yellow	50	White	Turquoise

L.V. Power and Control Cables

Instrumentation Cable Solutions

Colour Coding
As per BS 5308 part 2

Two-pair unscreened or collectively screened cables are quad formation and colour coded in clockwise order of rotation, blue, Green, Orange, Brown.

All other cables up to 50 paris conform to the following coding.

Pair Number	A wire	B wire	Pair Number	A wire	B wire
1	White	Blue	26	Red-Blue	Blue
2	White	Orang	27	Red-Blue	Orang
3	White	Green	28	Red-Blue	Green
4	White	Brown	29	Red-Blue	Brown
5	White	Grey	30	Red-Blue	Grey
6	Red	Blue	31	Blue-Black	Blue
7	Red	White	32	Blue-Black	White
8	Red	Green	33	Blue-Black	Green
9	Red	Brown	34	Blue-Black	Brown
10	Red	Grey	35	Blue-Black	Grey
11	Black	Blue	36	Yellow-Blue	Blue
12	Black	White	37	Yellow-Blue	White
13	Black	Green	38	Yellow-Blue	Green
14	Black	Brown	39	Yellow-Blue	Brown
15	Black	Grey	40	Yellow-Blue	Grey
16	Yellow	Blue	41	White-Orange	Blue
17	Yellow	White	42	White-Orange	White
18	Yellow	Green	43	White-Orange	Green
19	Yellow	Brown	44	White-Orange	Brown
20	Yellow	Grey	45	White-Orange	Grey
21	White-Blue	Blue	46	Orange-Red	Blue
22	White-Blue	White	47	Orange-Red	White
23	White-Blue	Green	48	Orange-Red	Green
24	White-Blue	Brown	49	Orange-Red	Brown
25	White-Blue	Grey	50	Orange-Red	Grey

NOTE
Except in the case of bi-colour extrusion the colour indicated in block letters is known as the bas e colour & is
a) the extruded colour and
b) the colour with the greater area if exposure on the finished wire.

Cables and Drums user guide

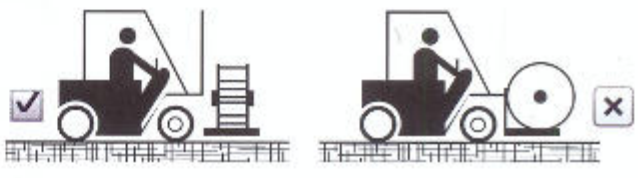
SHAHIN CABLE

1. Drums handling

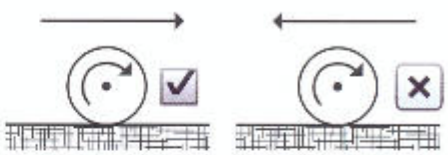
1.1 Position of drums :
Drums must be handled only in the upright position not on the flanges .

1.2 Loading :
Drums must be lifted only with mandrel or a chain through the central hole . It is important to use spacing bar to leave a gap between the chain and the flages of the drum . Do not lift more than one drum if its diameter is equal to or greater than 1.2 meters .

1.3 Unloading :
When unloading from vehicles (truck , ship , wagon ...) the correct lifting gear must be used (forklift , truck , crane ...) . Never drop drums even from a small height .



1.4 Handling by forklift :
If a forklift is used , always crandle both drums flanges between the forks . The forks must not bear unsupported laggings between flanges .

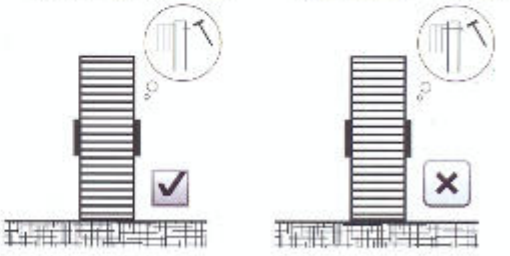


1.5 Rolling :
Drums are permitted to be rolled for short distances The ground being smooth and free of injurious impediments , but only in the direction of the arrow painted on flanges . If arrow sing is missed , drums may be rolled but only in the opposite direction to cable winding , to keep cable from looseing the drum .

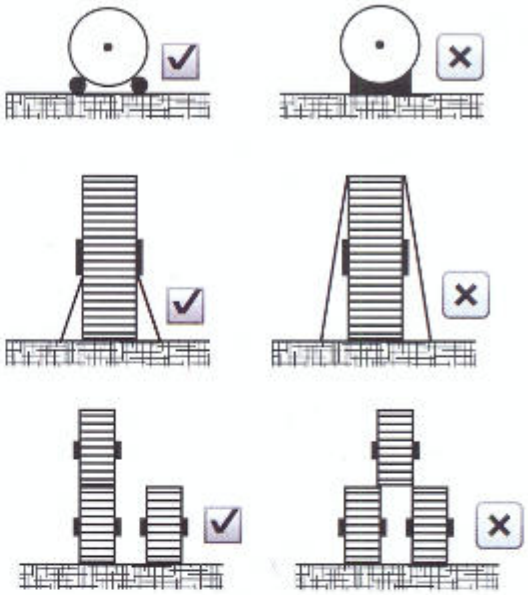
2 . Transport Requirement :

2.1 Position of the Drums :
Drums must be handled only in the upright position not on the flanges .

2.2 Fastening Drums :
Wedges must be used to retain drums . Wedges must be positioned at flanges edges and not between flanges . The use of stone is forbidden .



2.3 Use of nails :
When nails are used to fasten drums on vehicles , be sure that the length of the nail is less than the thickness of the flanges .



2.4 Bigger Drums :

Drums with diamater greater than 1.6 meters must be supported by wedges and must not touch the vehicle s floor .

2.5 Binding of the Drums :

Binding must be made with ropes crossing through the central hole and , if necessary on the drums flanges . Binding with ropes only crossing the drums edges is forbidden .

2.6 Multiple Drums storage :

Multiple drums storage , either doubler or single layer must be obtained with flange to flange contact . Flanges contacting to unsupoorted part of langgings are forbidden .