Caledonian Cables Ltd

Industrial Cables

Australian Standard

Low Voltage

Addison

Company Profile

Caledonian. established in 1978.offers one of the most complete lines of fiber and copper cabling system solutions with over hundreds of different cabling system products. . Our superior products provide leading edge within every cable series and for every application.

Among the national and international standards with which our cables could comply are: BS - British Standard; LPCB Fire Performance Standard. ISO Standard etc. Caledonian Cables offers a comprehensive st°Ck of cables and cabling products through its nationwide network of resellers and distributors. Caledonian Cables has continually expanded its global presence in Europe and Asia.

Caledonian & Addison. produces a wide range of cables for communication. power and electronics in its primary plants in UK. Italy and Spain. To stay in front. we continually keep expanding our manufacturing capabilities in more low cost region such as Romania. Taiwan. Malaysia etc. This low-cost manufacturing facilities enable us provide a flexible. scalable global system that delivers superior operational performance and optimal results for our customers.

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing. logistic services. and vertically integrated with our E commerce technologies. to optimize customer operations by lowering costs and reducing time to market.

Caledonian & Addison has been respected for its high standards of quality. excellent service level. competitive pricing and a unique and innovative spirit. With our latest technologies. we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning. we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized. country and industry-specific solutions. Caledonian & Addison has established an extensive network of design. manufacturing. and logistics facilities in the world’s major markets to serve the growing outsourcing needs of both multinational and regional customers.

Our Certificate

INTERNATIONAL FIRST CERTIFICATION

INTERNATIONAL FIRST CERTIFICATION

CERTIFICATE

This certificate,

CALEDONIAN KABLO ELEKTRIK SANAYI VE TICARET LIMITED SIRKETI

MERKEZ MAHALLESI BAGLAR CADDESI C BLOK APARTMANI NO:14 C/4 KAGITHANE ISTANBUL, TURKEY

to do organization,

DESIGN, SUPPLY, FABRICATION, INSTALLATION, ASSEMBLY, COMMISSIONING, TESTING AND MAINTENANCE OF LV/MV/HV ENERGY CABLES, DATA CABLES, INSTRUMENTATION CABLES, TELECOMMUNICATION CABLES, FIBER OPTIC CABLES, RAILWAY CABLES, ROLLING STOCK CABLES, PHOTOVOLTAIC CABLES, MARINE CABLES, CABLING SYSTEM, CABLE ACCESORIES, ABC, AAC, ACSR, AAAC, POWER AND DISTRIBITION TRANSFORMERS, SWITCH GEARS, COMMUNICATION SYSTEMS, IT SYSTEMS

According to the scope,

ISO 9001:2015

To certify that Quality Management System in accordance with standard's clauses is established and being implemented.

Initial Date	: 24.08.2021
Issue Date	: 10.08.2022
Date of Validity	: 3 Yıl/ 23.08.2024
Expiry Date	: 23.08.2023
Certificate No	: IFC-Q-8-21-I-10180

IAS ACCREDITED

MSCB 170

Approval

IFC GLOBAL SERTİFİKASYON MUAYENE VE EĞİTİM HİZMETLERİ ANONİM ŞİRKETİ
Adalet Mah. 2132/2 Sk. No:3 D:45 Bayraklı, İzmir, TÜRKİYE T:+90 850 304 35 00 F:+90 850 304 35 00
www.ifcglobal.com.tr info@ifcglobal.com.tr

Table of Content

V75 PVC Light Duty Flexible Cord, 250/250V

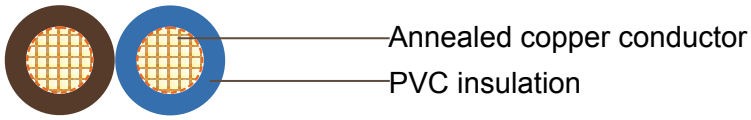
Application

These cables are suitable for installing in dry applications only. They are use in radios, shavers, desk lamps and small portable equipment or use in office machines, hair dryers etc.and for appliances requiring an earth connection. Also suitable for use with double insulated appliances where the cord is not subject to mechanical stress.

Standard

AS/NZS 3191, AS/NZS 1125

Cable Construction



Conductor: Annealed copper conductor to AS/NZS 1125
Maximum operating temperature: 75°C

Insulation: V-75 PVC

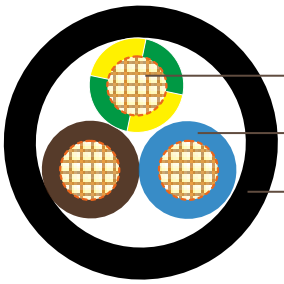
Colours: 2C Brown, Light Blue
3C Brown, Light Blue, Green/Yellow

Sheath: 4V-75 PVC

Colours: Grey, White, Black, Orange

Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39.0	47.4	94.7
0.75	7.5	26.0	31.6	63.2
1.0	10	19.5	23.7	47.5
1.5	16	13.3	16.2	32.3
2.5	20	7.98	9.70	19.4
4.0	25	4.95	6.02	12.0



Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Round					
0.5	2	0.5	0.6	5.2	3.7
0.5	3	0.5	0.6	5.5	4.2
0.75	2	0.5	0.6	5.6	4.5
0.75	3	0.5	0.6	5.9	5.4
Parallel Webbed, Flat, Unsheathed					
0.5	2	0.8	-	5.2×2.6	2.2
0.75	2	0.8	-	5.6×2.8	2.7

V90 PVC Light Duty Flexible Cord, 250/250V

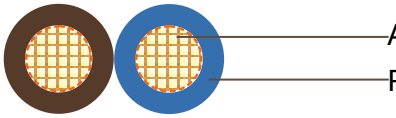
Application

These cables are suitable for installing in dry applications only. They are use in radios, shavers, desk lamps and small portable equipment or use in office machines, hair dryers etc.and for appliances requiring an earth connection. Also suitable for use with double insulated appliances where the cord is not subject to mechanical stress.

Standard

AS/NZS 3191, AS/NZS 1125

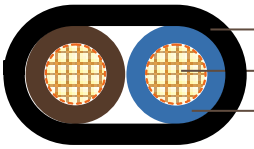
Cable Construction

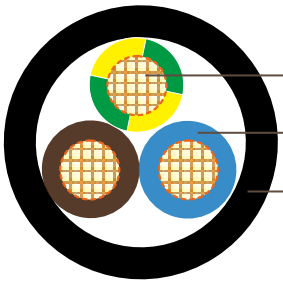


Conductor: Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 90°C
Insulation: V-90 PVC
Colours: 2C Brown, Light Blue
3C Brown, Light Blue, Green/Yellow
Sheath: 5V-90 PVC
Colours: Grey, White, Black, Orange

Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39	49.7	99.4
0.75	7.5	26	33.2	66.3
1	10	19.5	24.9	49.8
1.5	16	13.3	17	34
2.5	20	7.98	10.2	20.3
4	25	4.95	6.31	12.6





Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Flat					
0.5	2	0.5	0.6	5.2×3.3	2.8
0.75	2	0.5	0.6	5.6×3.5	3.4
Round					
0.5	2	0.5	0.6	5.2	3.7
0.5	3	0.5	0.6	5.5	4.2
0.75	2	0.5	0.6	5.6	4.5
0.75	3	0.5	0.6	5.9	5.4
Parallel Webbed, Flat, Unsheathed					
0.5	2	0.8	-	5.2×2.6	2.2
0.75	2	0.8	-	5.6×2.8	2.7
1.0	2	0.8	-	6.0×3.0	3.3
1.5	2	0.8	-	6.6×3.3	4.5
2.5	2	0.9	-	7.9×3.9	6.6
4	2	1.0	-	9.3×4.7	11.0

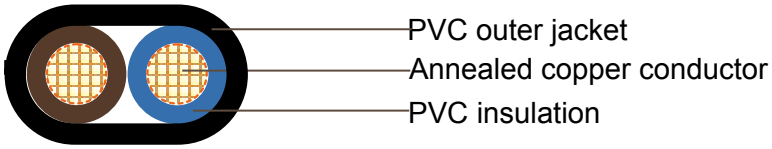
V75 PVC Ordinary Duty Flexible Cord, 250/400V

Application

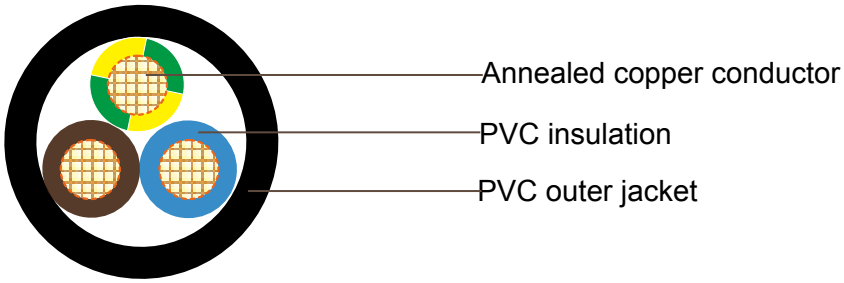
These cables are suitable for installation in dry applications only, in conduit or enclosures, such as switchboards, control panels, appliances and electrical equipment. such as radios, desk lamps and office machines, etc. Also they are used for extension leads in sizes 1 mm2 and above. Multicore cords containing an E core are suitable for a number of applications in dry and damp conditions, such as domestic appliances (washing machines, dishwashers). Leads for industrial and office equipment requiring a three-phase supply and an earth connection.

Standard

AS/NZS 3191
AS/NZS 1125



Cable Construction



Conductor: Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 75°C

Insulation: V-75 PVC

Colours: 1C - Red, White, Light Blue, Black
2C - Brown, Light Blue
3C - Brown, Light Blue, Green/Yellow
4C - Brown, Light Blue, White, Green/Yellow
5C - Brown, Light Blue, Orange, White, Green/Yellow

Sheath: 4V-75 PVC

Colours: Grey, White, Black, Orange

Technical Characteristics

Conductor Size mm²	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39.0	47.4	94.7
0.75	7.5	26.0	31.6	63.2
1.0	10	19.5	23.7	47.5
1.5	16	13.3	16.2	32.3
2.5	20	7.98	9.70	19.4
4.0	25	4.95	6.02	12.0

Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm²		mm	mm	mm	kg/100m
Round					
0.5	1	0.6	-	2.2	0.9
0.75	1	0.6	-	2.4	1.2
1.0	1	0.6	-	2.5	1.5
1.5	1	0.7	-	3.0	2.1
2.5	1	0.8	-	3.7	3.4
4	1	0.8	-	4.2	4.8
Flat					
0.5	2	0.6	0.8	6.0×3.9	3.6
0.75	2	0.6	0.8	6.4×4.1	4.3
Round					
0.75	2	0.6	0.8	6.4	5.7
1.0	2	0.6	0.8	6.7	6.5
1.5	2	0.7	0.8	7.7	8.9
2.5	2	0.8	1.0	9.4	14
4	2	0.8	1.0	10.5	18
0.75	3	0.6	0.8	6.8	6.8
1.0	3	0.6	0.8	7.1	7.9
1.5	3	0.7	0.9	8.4	11
2.5	3	0.8	1.1	10.2	17
4	3	0.8	1.1	11.4	23
0.75	4	0.6	0.8	7.4	8.2
1.0	4	0.6	0.9	8.0	9.9
1.5	4	0.7	1.0	9.4	14
2.5	4	0.8	1.1	11.2	21
4	4	0.8	1.1	12.5	29
0.75	5	0.6	0.9	8.3	10
1.0	5	0.6	0.9	8.7	12
1.5	5	0.7	1.1	10.5	17
2.5	5	0.8	1.2	12.4	26
4	5	0.8	1.3	14.1	36

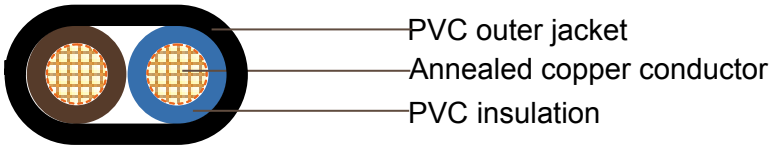
V90 PVC Ordinary Duty Flexible Cord, 250/400V

Application

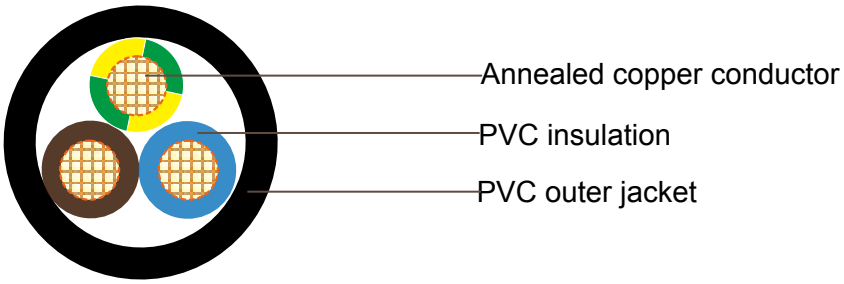
These cables are suitable for installation in dry applications only, in conduit or enclosures, such as switchboards, control panels, appliances and electrical equipment. such as radios, desk lamps and office machines, etc. Also they are used for extension leads in sizes 1 mm2 and above. Multicore cords containing an E core are suitable for a number of applications in dry and damp conditions, such as domestic appliances (washing machines, dishwashers). Leads for industrial and office equipment requiring a three-phase supply and an earth connection.

Standard

AS/NZS 3191
AS/NZS 1125



Cable Construction



Conductor : Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 90°C
Insulation :V-90 PVC
Colours: 1C - Red, White, Light Blue, Black
2C - Brown, Light Blue
3C - Brown, Light Blue, Green/Yellow
4C - Brown, Light Blue, White, Green/Yellow
5C - Brown, Light Blue, Orange, White, Green/Yellow
Sheath: 5V-90 PVC
Colours: Grey, White, Black, Orange

Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39	49.7	99.4
0.75	7.5	26	33.2	66.3
1	10	19.5	24.9	49.8
1.5	16	13.3	17	34
2.5	20	7.98	10.2	20.3
4	25	4.95	6.31	12.6

Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Round					
0.5	1	0.6	-	2.2	0.9
0.75	1	0.6	-	2.4	1.2
1.0	1	0.6	-	2.5	1.5
1.5	1	0.7	-	3.0	2.1
2.5	1	0.8	-	3.7	3.4
4	1	0.8	-	4.2	4.8
Flat					
0.5	2	0.6	0.8	6.0×3.9	3.6
0.75	2	0.6	0.8	6.4×4.1	4.3
Round					
0.75	2	0.6	0.8	6.4	5.7
1.0	2	0.6	0.8	6.7	6.5
1.5	2	0.7	0.8	7.7	8.9
2.5	2	0.8	1.0	9.4	14
4	2	0.8	1.0	10.5	18
0.75	3	0.6	0.8	6.8	6.8
1.0	3	0.6	0.8	7.1	7.9
1.5	3	0.7	0.9	8.4	11
2.5	3	0.8	1.1	10.2	17
4	3	0.8	1.1	11.4	23
0.75	4	0.6	0.8	7.4	8.2
1.0	4	0.6	0.9	8.0	9.9
1.5	4	0.7	1.0	9.4	14
2.5	4	0.8	1.1	11.2	21
4	4	0.8	1.1	12.5	29
0.75	5	0.6	0.9	8.3	10
1.0	5	0.6	0.9	8.7	12
1.5	5	0.7	1.1	10.5	17
2.5	5	0.8	1.2	12.4	26
4	5	0.8	1.3	14.1	36

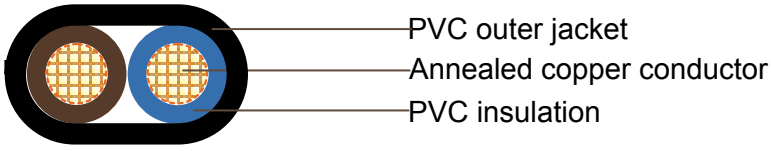
V75 PVC Heavy Duty Flexible Cord, 0.6/1kV

Application

These cables are suitable for installation in switchboards and control panels where confined spaces and tortuous routes are encountered, or where flexibility is needed for hinged panels, and for fixed wiring within other enclosures where the cable is not accessible without the use of tools. they are suitable for extension leads in sizes 1 mm^2 and above and suitable for supply to small industrial and commercial equipment requiring three phase power. They are also suitable for equipment requiring three phase and single phase supply and an earth connection, for example equipment containing a three phase motor and single phase pilot lights, such as industrial sweepers, vacuum cleaners, welders, etc, also suitable for use with double insulated appliances where the cord is subject to higher mechanical stress, in damp and wet conditions.

Standard

AS/NZS 5000.1
AS/NZS 3191
AS/NZS 1125



Cable Construction

Conductor: Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 75°C

Insulation: V-75 PVC

Colours:

To AS/NZS 3191 (≤4 mm^2)

1C - Red, White, Light Blue, Black
2C - Brown, Light Blue
3C - Brown, Light Blue, Green/Yellow
4C - Brown, Light Blue, White, Green/Yellow
5C - Brown, Light Blue, Orange, White, Green/Yellow

To AS/NZS 5000.1 (≥6 mm^2)

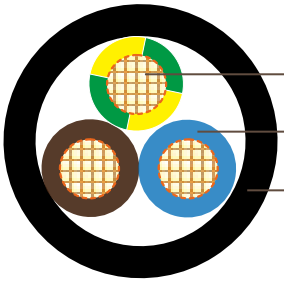
3C - Red, Black, Green/Yellow

4C - Red, White, Black, Green/Yellow

5C - Red, White, Blue, Black, Green/Yellow

Sheath: 4V-75 PVC

Colours: Black, Orange



Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39.0	47.4	94.7
0.75	7.5	26.0	31.6	63.2
1.0	10	19.5	23.7	47.5
1.5	16	13.3	16.2	32.3
2.5	20	7.98	9.70	19.4
4.0	25	4.95	6.02	12.0

Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Round without sheath					
0.5	1	0.8	-	2.6	1.1
0.75	1	0.8	-	2.8	1.4
1.0	1	0.8	-	2.9	1.6
1.5	1	0.8	-	3.2	2.1
2.5	1	0.9	-	3.9	3.3
4	1	1.0	-	4.7	5.5
Round					
0.75	1	0.8	1.3	5.4	3.8
1.0	1	0.8	1.3	5.6	4.2
1.5	1	0.8	1.4	6.1	5.2

Australian Standard

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
2.5	1	0.9	1.4	6.8	6.9
4	1	1.0	1.5	7.7	9.4
0.75	2	0.8	1.3	8.2	8.4
1.0	2	0.8	1.3	8.6	9.3
1.5	2	0.8	1.5	9.5	12
2.5	2	0.9	1.7	11.2	17
4	2	1.0	1.8	13	25
Round with ground conductor					
0.75	3	0.8	1.4	8.8	10
1.0	3	0.8	1.4	9.2	11
1.5	3	0.8	1.6	10.2	15
2.5	3	0.9	1.8	12.1	21
4	3	1.0	1.9	13.9	30
6	3	1.0	2.9	16.0	44
10	3	1.0	3.1	20.5	69
16	3	1.0	3.3	24.1	90
25	3	1.2	3.7	29.4	140
35	3	1.2	4.0	32.5	181
50	3	1.4	4.4	37.7	241
0.75	4	0.8	1.5	9.8	12
1.0	4	0.8	1.5	10.2	14
1.5	4	0.8	1.7	11.3	18
2.5	4	0.9	1.9	13.3	26
4	4	1.0	2.0	15.4	38
6	4	1.0	3.0	17.6	54
10	4	1.0	3.3	22.6	85
16	4	1.0	3.5	26.1	122
25	4	1.2	3.9	32.0	191
35	4	1.2	4.2	35.3	246
50	4	1.4	4.7	41.2	332
70	4	1.4	5.1	48.3	460
95	4	1.6	5.7	53.3	577
120	4	1.6	6.1	60.0	731
0.75	5	0.8	1.6	10.8	15
1.0	5	0.8	1.6	11.2	17
1.5	5	0.8	1.8	12.4	21
2.5	5	0.9	2.0	14.6	30
4	5	1.0	2.2	17.1	46

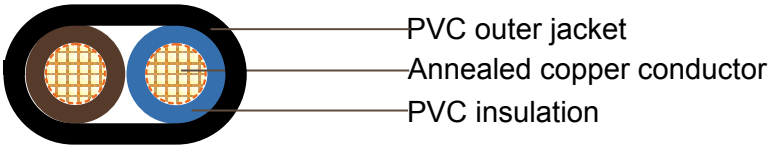
V90 PVC Heavy Duty Flexible Cord, 0.6/1kV

Application

These cables are suitable for installation in switchboards and control panels where confined spaces and tortuous routes are encountered, or where flexibility is needed for hinged panels, and for fixed wiring within other enclosures where the cable is not accessible without the use of tools. they are suitable for extension leads in sizes 1 mm^2 and above and suitable for supply to small industrial and commercial equipment requiring three phase power. They are also suitable for equipment requiring three phase and single phase supply and an earth connection, for example equipment containing a three phase motor and single phase pilot lights, such as industrial sweepers, vacuum cleaners, welders, etc, also suitable for use with double insulated appliances where the cord is subject to higher mechanical stress, in damp and wet conditions.

Standard

AS/NZS 5000.1
AS/NZS 3191
AS/NZS 1125



Cable Construction

Conductor: Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 90°C

Insulation: V-90 PVC

Colours:

To AS/NZS 3191 (≤4 mm^2)

1C - Red, White, Light Blue, Black
2C - Brown, Light Blue
3C - Brown, Light Blue, Green/Yellow
4C - Brown, Light Blue, White, Green/Yellow
5C - Brown, Light Blue, Orange, White, Green/Yellow

Australian Standard

To AS/NZS 5000.1 (≥6 mm^2)

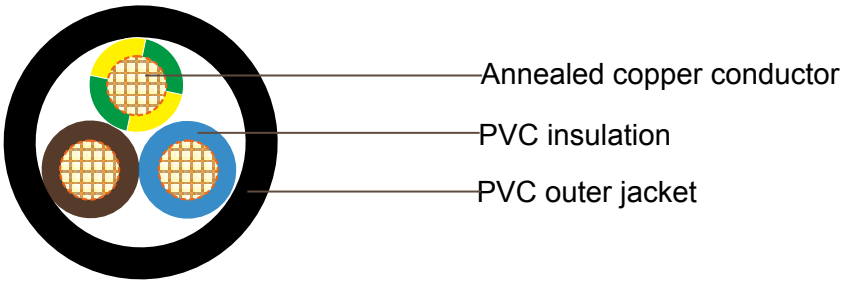
3C - Red, Black, Green/Yellow

4C - Red, White, Black, Green/Yellow

5C - Red, White, Blue, Black, Green/Yellow

Sheath: 5V-90 PVC

Colours: Black, Orange



Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39	49.7	99.4
0.75	7.5	26	33.2	66.3
1	10	19.5	24.9	49.8
1.5	16	13.3	17	34
2.5	20	7.98	10.2	20.3
4	25	4.95	6.31	12.6

Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Round without sheath					
0.5	1	0.8	-	2.6	1.1
0.75	1	0.8	-	2.8	1.4
1.0	1	0.8	-	2.9	1.6
1.5	1	0.8	-	3.2	2.1
2.5	1	0.9	-	3.9	3.3
4	1	1.0	-	4.7	5.5
Round					
0.75	1	0.8	1.3	5.4	3.8
1.0	1	0.8	1.3	5.6	4.2
1.5	1	0.8	1.4	6.1	5.2

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
2.5	1	0.9	1.4	6.8	6.9
4	1	1.0	1.5	7.7	9.4
0.75	2	0.8	1.3	8.2	8.4
1.0	2	0.8	1.3	8.6	9.3
1.5	2	0.8	1.5	9.5	12
2.5	2	0.9	1.7	11.2	17
4	2	1.0	1.8	13	25
Round with ground conductor					
0.75	3	0.8	1.4	8.8	10
1.0	3	0.8	1.4	9.2	11
1.5	3	0.8	1.6	10.2	15
2.5	3	0.9	1.8	12.1	21
4	3	1.0	1.9	13.9	30
6	3	1.0	2.9	16.0	44
10	3	1.0	3.1	20.5	69
16	3	1.0	3.3	24.1	90
25	3	1.2	3.7	29.4	140
35	3	1.2	4.0	32.5	181
50	3	1.4	4.4	37.7	241
0.75	4	0.8	1.5	9.8	12
1.0	4	0.8	1.5	10.2	14
1.5	4	0.8	1.7	11.3	18
2.5	4	0.9	1.9	13.3	26
4	4	1.0	2.0	15.4	38
6	4	1.0	3.0	17.6	54
10	4	1.0	3.3	22.6	85
16	4	1.0	3.5	26.1	122
25	4	1.2	3.9	32.0	191
35	4	1.2	4.2	35.3	246
50	4	1.4	4.7	41.2	332
70	4	1.4	5.1	48.3	460
95	4	1.6	5.7	53.3	577
120	4	1.6	6.1	60.0	731
0.75	5	0.8	1.6	10.8	15
1.0	5	0.8	1.6	11.2	17
1.5	5	0.8	1.8	12.4	21
2.5	5	0.9	2.0	14.6	30
4	5	1.0	2.2	17.1	46

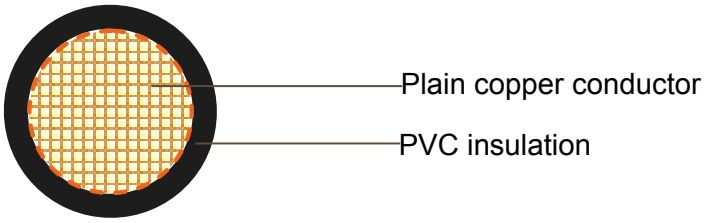
Single Core Flexible Power Cable, 0.6/1kV

Application

These cables are mainly for use in fixed applications.

Standard

AS 5000.1
AS1125
AS3808



Cable Construction

Conductor: Nominal 0.2mm stranded flexible plain copper wire to AS1125
Insulation: V90HT PVC to AS3808
Colours: Black, Red, Blue, White, GreenlYellow

Technical Characteristics

Conductor Size mm^2	Electrical Resistance @20.C	Current Rating' AMPS 2 single cores	Voltage Orop mV 1Am at Max operating Temperature	
mm^2	Ohm/km		Single Phase	Three Phase
4	4.950	40	11 .20	9.71
6	3.300	51	7.50	6.49
10	1.910	69	4.45	3.86
16	1.210	92	2.80	2.43
25	0.780	125	1.78	1.54
35	0.554	155	1.29	1.12
50	0.386	185	0.96	0.83
70	0.272	240	0.62	0.59
95	0.206	295	0.51	0.44
120	0.161	345	0.41	0.36

Cable Parameter

Conductor Size	No.of cores	Conductor No./ OD	Nominal Insulation Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
4	1	128/0.2	1.0	4.8	5.30
6	1	192/0.2	1.0	5.4	7.30
10	1	322/0.2	1.0	6.3	11.40
16	1	511/0.2	1.0	7.3	17.10
25	1	784/0.2	1.2	8.8	30.00
35	1	1120/0.2	1.2	10.2	37.50
50	1	1568/0.2	1.4	11 .9	51.00
70	1	2240/0.2	1.4	14.0	71 .50
95	1	3040/0.2	1.6	16.0	97.00
120	1	3800/02	1.6	17.5	119.10

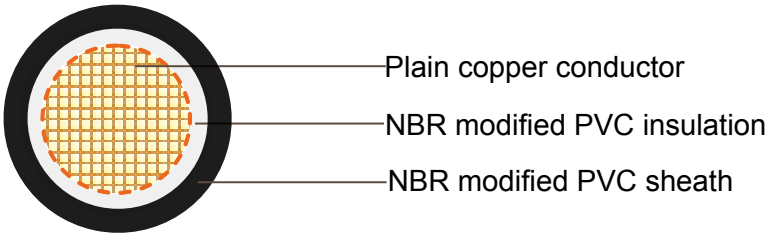
Single Core Double Insulated Flexible Power and Welding Cable, 0.6/1kV

Application

These cables are used for fixed power applications, can be used in power applications,such as switchboards, busbars, transformers, welding applications ,like E and electrode leads,and automotive applications for jumper leads, battery chargers.

Standard

AS 5000.1
AS 1995
AS 1125
AS 3808



Cable Construction

Conductor: Nominal 0.2mm stranded flexible plain copper wire to AS 1125
Insulation: Nitrile (NBR) Modified PVC to comply with AS3808 V90HT
Insulation Colour: White
Sheath: Nitrile (NBR) Modified PVC to comply with AS3808 V90HT
Sheath Colours: Orange, Black - other colours available by request

Technical Characteristics

Conductor Size mm^2	Electrical Resistance @20.C	Current Rating' AMPS 2 single cores	Voltage Orop mV 1Am at Max operating Temperature	
mm^2	Ohm/km		Single Phase	Three Phase
10	1.910	69	4.45	3.86
16	1.210	92	2.80	2.43
25	0.780	125	1.78	1.54
35	0.554	155	1.29	1.12
50	0.386	185	0.96	0.83
70	0.272	240	0.62	0.59
95	0.206	295	0.51	0.44
120	0.161	345	0.41	0.36

Cable Parameter

Conductor Size	No.of cores	Conductor No./ OD	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	mm	kg/100m
10	1	322/0.2	1.0	1.4	9.1	14.42
16	1	511/0.2	1.0	1.4	10.1	20.16
25	1	784/0.2	1.2	1.4	11.8	29.14
35	1	1120/0.2	1.2	1.4	13.1	38.96
50	1	1568/0.2	1.4	1.4	14.9	52.84
70	1	2240/0.2	1.4	1.5	17.0	72.34
95	1	3040/0.2	1.6	1.5	19.3	96.18
120	1	3800/0.2	1.6	1.6	20.8	117.86

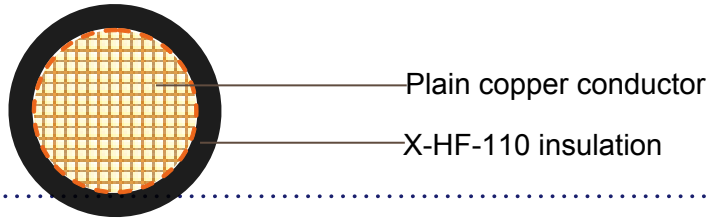
Flame Retardant Zero Halogen Crosslinked Thermoset Single Core X-HF-110 Flexible Power Cable, 0.6/1kV

Application

These power cables are mainly for use in fixed applications.

Standard

AS 5000.1,
AS 1125,
AS 3808



Cable Construction

Conductor: Nominal 0 .2mm stranded flexible plain copper wire to AS 1125
Insulation: X-HF-110 to AS3808
Colours: Black, Red, Blue, White, Green/Yellow

Technical Characteristics

Conductor Size mm^2	Electrical Resistance @20.C	Current Rating' AMPS 2 single cores	Voltage Drop mV 1Am at Max operating Temperature	
mm^2	Ohm/km		Single Phase	Three Phase
0.5	39	7	125	107
1.0	19.500	25	57.4	49.70
1.5	13.300	32	36.85	31 .90
2.5	7.980	45	20.1	17.40
4.0	4.950	59	12.5	10.80
6.0	3.300	75	8.35	7.23
10	1.910	105	4.97	4.30
16	1.210	135	3.13	2.71

Conductor Size mm^2	Electrical Resistance @20.C	Current Rating' AMPS 2 single cores	Voltage Drop mV 1Am at Max operating Temperature	
mm^2	Ohm/km		Single Phase	Three Phase
25	0.780	185	1.99	1.72
35	0.554	225	1.44	1.25
50	0.386	275	1.07	0.929
70	0.272	350	0.769	0.657
95	0.206	435	0.567	0.491
120	0.161	510	0.465	0.403

Cable Parameter

Conductor Size	No.of cores	Conductor No./ OD	Nominal Insulation Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
0.5	1	16/0.2	0.7	2.40	1.10
1.0	1	32/0.2	0.7	2.80	1.50
1.5	1	30/0.25	0.7	3.10	2.00
2.5	1	50/0.25	0.7	3.60	2.90
4.0	1	128/0.2	0.7	4.20	4.40
6.0	1	192/0.2	0.7	4.80	6.60
10	1	322/0.2	0.7	5.80	10.50
16	1	511/0.2	0.7	6.90	16.10
25	1	784/0.2	0.9	8.70	28.80
35	1	1120/0.2	0.9	9.60	36.30
50	1	1568/0.2	1.0	11.20	49.50
70	1	2240/0.2	1.1	13.20	70.10
95	1	3040/0.2	1.1	15.00	94.20
120	1	3800/0.2	1.2	16.70	116.80

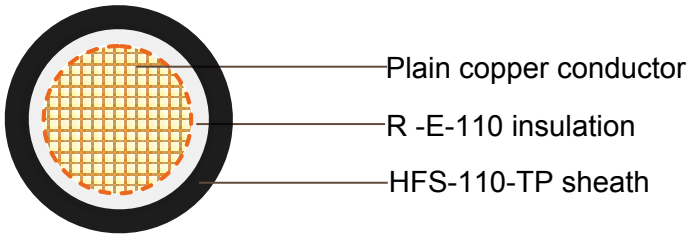
Zero Halogen Flame Retardant 110°C Double Insulated Cable, 0.6/1kV

Application

These cables are used in power and switchboard fixed applications.

Standard

AS 5000.1
AS 1125
AS 3808



Cable Construction

Conductor: Nominal 0 .2mm stranded flexible plain copper wire to AS1125
Insulation: R -E-110 to AS3808
Insulation Colour: White
Sheath: HFS-110-TP to comply with AS3808
Sheath Colours: Orange , Black - other colours available by request

Technical Characteristics

Conductor Size mm^2	Electrical Resistance @20.C	Current Rating' AMPS 2 single cores	Voltage Drop mV 1Am at Max operating Temperature	
mm^2	Ohm/km		Single Phase	Three Phase
10	1.910	105	4.97	4.30
16	1.210	135	3.13	2.70
25	0.780	185	1.99	1.72
35	0.554	225	1.44	1.24
50	0.386	275	1.07	0.92
70	0.272	350	0.769	0.65
95	0.206	435	0.567	0.48
120	0.161	510	0.465	0.39

Cable Parameter

Conductor Size	No.of cores	Conductor No./ OD	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	mm	kg/100m
10	1	322/0.2	1.0	1.4	9.1	16.30
16	1	511/0.2	1.0	1.4	10.1	23.40
25	1	784/0.2	1.2	1.4	11.8	33.60
35	1	1120102	1.2	1.4	13.1	44.60
50	1	1568/0.2	1.4	1.4	14.9	62.50
70	1	2240/0.2	1.4	1.4	17.0	81 .80
95	1	3040/0.2	1.6	1.5	19.3	113.00
120	1	3800/0.2	1.6	1.5	20.8	137.40

Single Core V90HT 0.6/1kV

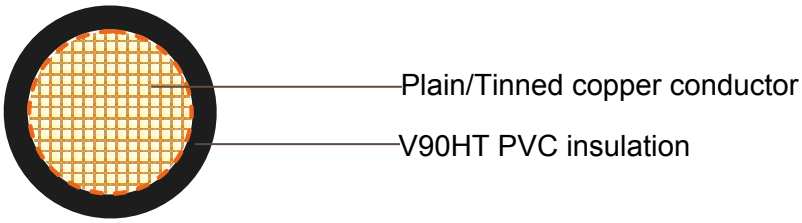
Application

These cables are for electrical Interconnections.

Standard

AS 3191, AS 1125, AS 3808

Cable Construction



Conductor: Tinned copper wire (TCW) or plain copper wire (PCW) to AS1125
Insulation: V90HT PVC AS3808
Colours: Red, Blue, Green, Yellow, White, Black, Brown, Violet, Orange, Grey

Technical Characteristics

Conductor Size mm^2	Electrical Resistance @20.C Ohm/km(TCW)	Electrical Resistance @20.C Ohm/km(PCW)	AMP Rating
0.5	40.1	39	3
0.75	26.7	26	7.5
1	20	19.5	10
1.5	13.7	13.3	15
2.5	8.2	8	20
4	5.1	5	25

Cable Parameter

Conductor Size	No.of cores	Conductor No./ OD	Nominal Insulation Thickness	Nominal O.D.	Approx.cable weight
mm^2	1	mm	mm	mm	kg/100m
0.5	1	16/0.2	0.8	2.6	1.1
0.75	1	24/0.2	0.8	2.8	1.4
1	1	32/0.2	0.8	3	1.7
1.5	1	30/0.25	0.8	3.3	2.2
2.5	1	50/0.25	0.9	3.95	3.5
4	1	56/0.3	1	4.75	5.3

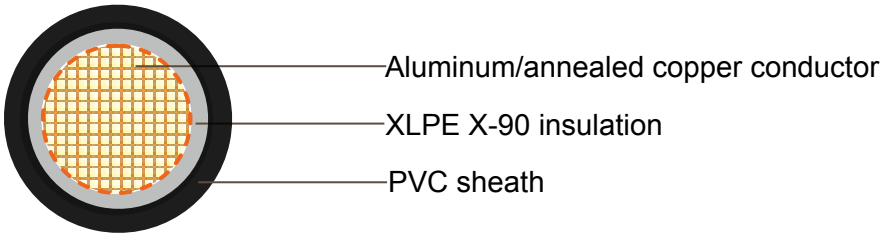
Single core XLPE Insulated, PVC Sheathed Unarmoured Cables, 0.6/1kV

Application

These cables are used for outdoor and indoor installations in damp and wet applications. They are normally used for power distribution in urban networks, industrial plants and energy distribution.
For mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage. Suitable where space is at a premium.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Aluminum/plain annealed copper
Insulation: XLPE X-90
Insulation colour: black, other colors are available upon request
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings				Electrical Characteristics			
Nominal Area mm^2	In conduit In Air A	Buried In Ducts A	In conduit In Air A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance (trefoil) Ohm/km	3 phase Voltage Drop mV/A
Aluminum								
16	70	74	74	86	1.91	2.45	0.106	4.25
25	99	96	100	112	1.20	1.54	0.102	2.67
35	116	118	121	134	0.868	1.11	0.0982	1.94

Conductor	Current Ratings				Electrical Characteristics			
Nominal Area mm^2	In conduit In Air A	Buried In Ducts A	In conduit In Air A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance (trefoil) Ohm/km	3 phase Voltage Drop mV/A
50	138	139	149	161	0.641	0.822	0.0924	1.43
70	176	177	193	198	0.443	0.568	0.0893	0.997
95	215	209	237	241	0.320	0.411	0.0868	0.727
120	253	241	281	278	0.253	0.325	0.0844	0.582
150	286	273	319	310	0.206	0.265	0.0844	0.482
185	330	310	374	358	0.164	0.212	0.0835	0.394
240	396	369	440	428	0.125	0.162	0.0818	0.314
300	457	428	-	482	0.100	0.130	0.0809	0.266
400	534	487	-	567	0.0778	0.103	0.0802	0.226
500	616	578	-	653	0.0605	0.0813	0.0796	0.197
630	726	663	-	770	0.0469	0.0649	0.0787	0.177
Copper								
16	86	95	95	112	1.15	1.47	0.106	2.550
25	121	123	127	144	0.727	0.927	0.102	1.620
35	138	150	160	171	0.524	0.668	0.098	1.170
50	171	182	193	209	0.387	0.494	0.092	0.872
70	209	225	242	257	0.268	0.342	0.089	0.615
95	253	268	286	310	0.193	0.247	0.087	0.457
120	297	310	341	358	0.153	0.197	0.084	0.373
150	341	353	385	401	0.124	0.160	0.084	0.316
185	391	401	440	465	0.099	0.129	0.084	0.269
240	462	471	523	546	0.075	0.099	0.082	0.227
300	534	546	-	621	0.060	0.080	0.081	0.202
400	616	621	-	717	0.047	0.065	0.080	0.183
500	715	717	-	813	0.037	0.053	0.080	0.170
630	836	813	-	952	0.028	0.043	0.079	0.159

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Main conductor type		Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
Aluminium Conductor						
16	7/1.70	circular	0.7	1.4	9.4	100
25	7strands	compacted	0.9	1.4	11.3	160
35	19strands	compacted	0.9	1.4	12.5	210
50	19strands	compacted	1.0	1.4	13.1	260
70	19strands	compacted	1.1	1.4	15.0	330
95	19strands	compacted	1.1	1.5	17.0	420
120	19strands	compacted	1.2	1.5	18.6	510
150	19strands	compacted	1.4	1.6	20.7	640
185	36strands	compacted	1.6	1.6	22.7	780
240	36strands	compacted	1.7	1.7	25.5	990
300	37strands	compacted	1.8	1.8	28.1	1220
400	60strands	compacted	2.0	1.9	31.8	1600
500	60strands	compacted	2.2	2	35.4	2000
630	60strands	compacted	2.4	2.2	39.6	2600
Copper Conductor						
16	7/1.70	circular	0.7	1.4	9.4	230
25	7/2.14	circular	0.9	1.4	11.3	320
35	19/1.53	circular	0.9	1.4	12.5	425
50	19strands	compacted	1.0	1.4	13.1	550
70	19strands	compacted	1.1	1.4	15.0	760
95	19strands	compacted	1.1	1.5	16.8	1040
120	19strands	compacted	1.2	1.5	18.6	1305
150	19strands	compacted	1.4	1.6	20.6	1585
185	36strands	compacted	1.6	1.6	22.7	1980
240	36strands	compacted	1.7	1.7	25.6	2610
300	37strands	compacted	1.8	1.8	28.4	3340
400	60strands	compacted	2.0	1.9	31.7	4245
500	60strands	compacted	2.2	2.0	35.4	5500
630	91strands	compacted	2.4	2.2	42.4	7220

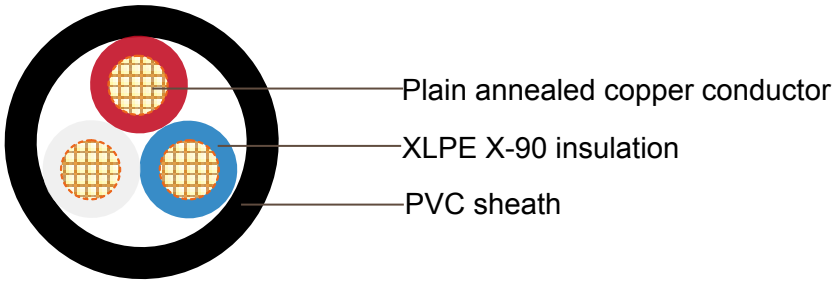
XLPE Insulated, PVC Sheathed Unarmored Multicore control Cables 0.6/1kV

Application

These cables are used for control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: XLPE X-90.
Insulation colour: 3C – Red, White, Blue
4C - Red, White, Blue,black
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
10	68	91	68	1.83	2.33	0.084	4.05
16	91	118	89	1.15	1.47	0.081	2.55
25	121	155	118	0.727	0.927	0.081	1.61

Australian Standard

Cable Parameter

Nom. conductor area	Main conductor type	Nom. insulation thickness	Nom. sheath thickness	Nom. overall diameter	Approx. mass
mm2		mm	mm	mm	kg/km
3 cores					
10	7/1.35	0.7	1.4	15.3	435
16	7/1.70	0.7	1.4	17.6	625
25	7/2.14	0.9	1.4	21.5	950
4 cores					
10	7/1.35	0.7	1.4	16.7	550
16	7/1.70	0.7	1.4	19.2	800
25	7/2.14	0.9	1.4	23.6	1250

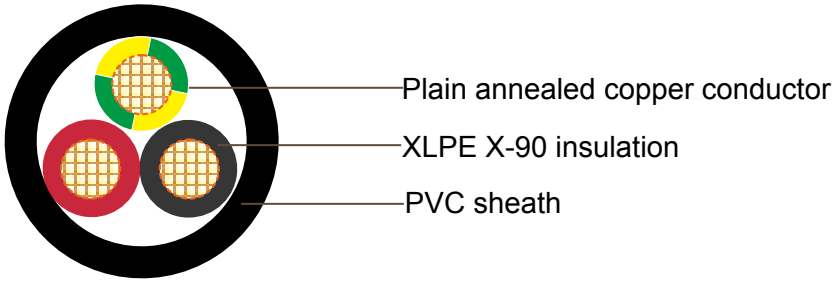
XLPE Insulated, PVC Sheathed 2 core+E Unarmored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: XLPE X-90.
Insulation colour: 2C + E - Red, Black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @90°C mV/Am
10	80	107	82	1.83	2.33	0.084	1.68
16	107	139	107	1.51	1.47	0.081	2.95
25	143	182	139	0.727	0.927	0.081	1.86
35	160	130	160	0.524	0.669	0.0786	1.35
50	195	160	190	0.387	0.494	0.0751	1.00

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @90°C mV/Am
70	250	200	235	0.268	0.343	0.0741	0.703
95	310	240	285	0.193	0.248	0.0725	0.520
120	360	285	325	0.153	0.197	0.0713	0.423

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
10	7/1.35	0.7	4	0.7	1.4	14.9	380
16	7/1.70	0.7	6	0.7	1.4	16.6	520
25	7/2.14	0.9	6	0.7	1.4	20.2	750
35	7/2.65	0.9	10	0.7	1.4	23.0	985
50	19/1.89	1.0	16	0.7	1.4	24.1	1310
70	19/2.24	1.1	25	0.9	1.4	29.8	1860
95	19/2.65	1.1	25	0.9	1.5	31.6	2415
120	19/2.94	1.2	35	0.9	1.6	35.5	3055

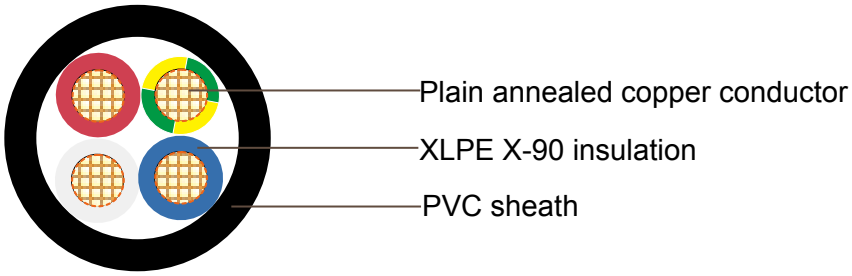
XLPE Insulated, PVC Sheathed 3 core+E Unarmored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: XLPE X-90
Insulation colour: 3C + E – Red, White, Blue, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
10	68	91	68	1.83	2.33	0.084	4.05
16	91	118	89	1.15	1.47	0.081	2.55
25	121	155	118	0.727	0.927	0.081	1.61
35	149	182	144	0.524	0.669	0.079	1.17
50	187	219	171	0.387	0.494	0.075	0.868

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
70	237	268	214	0.268	0.343	0.074	0.609
95	292	321	257	0.193	0.248	0.073	0.450
120	305	250	275	0.153	0.197	0.0713	0.366
150	350	280	310	0.124	0.16	0.0718	0.307
185	405	325	355	0.0991	0.129	0.072	0.259
240	480	385	420	0.0754	0.0998	0.0709	0.216

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
10	7/1.35	0.7	4	0.7	1.4	16.0	475
16	7/1.70	0.7	6	0.7	1.4	18.3	690
25	7/2.14	0.9	6	0.7	1.4	21.8	1020
35	7/2.65	0.9	10	0.7	1.4	26.9	1400
50	19/1.89	1.0	16	0.7	1.4	30.7	1900
70	19/2.24	1.1	25	0.9	1.4	35.9	2600
95	19/2.65	1.1	25	0.9	1.5	38.0	3050
120	19/2.94	1.2	35	0.9	1.6	41.8	4200
150	19/3.28	1.4	50	1.0	1.7	43.0	5250
185	37/2.65	1.6	70	1.1	1.8	48.4	6620
240	37/2.94	1.7	95	1.1	2.0	54.5	8720

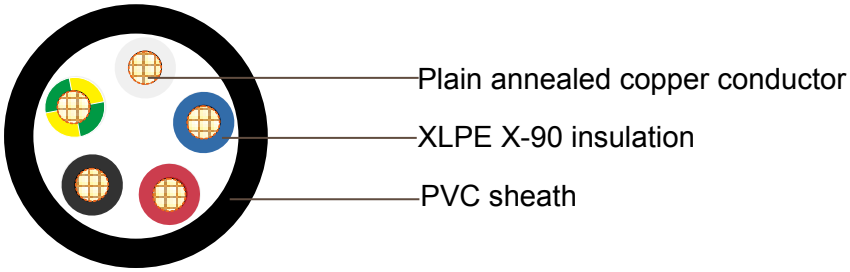
XLPE Insulated, PVC Sheathed 4 core+E Unarmored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: XLPE X-90.
Insulation colour: 4C + E - Red, White, Blue, black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
10	68	91	68	1.83	2.33	0.084	4.05
16	91	118	89	1.15	1.47	0.081	2.55
25	121	155	118	0.727	0.927	0.081	1.61
35	149	182	144	0.524	0.669	0.079	1.17
50	187	219	171	0.387	0.494	0.075	0.868

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
70	237	268	214	0.268	0.343	0.074	0.609
95	292	321	257	0.193	0.248	0.073	0.450
120	305	250	275	0.153	0.197	0.0713	0.366
150	350	280	310	0.124	0.160	0.0718	0.307
185	405	325	355	0.0991	0.129	0.0720	0.259
240	480	385	420	0.0754	0.0998	0.0709	0.216

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
10	7/1.35	0.7	4	0.7	1.4	18.4	620
16	7/1.70	0.7	6	0.7	1.4	21.1	900
25	7/2.14	0.9	6	0.7	1.4	24.7	1300
35	7/2.65	0.9	10	0.7	1.4	27.8	1750
50	19/1.89	1.0	16	0.7	1.4	29.6	2300
70	19/2.24	1.1	25	0.9	1.4	35.1	3400
95	19/2.65	1.1	25	0.9	1.5	39.1	4400
120	19/2.94	1.2	35	0.9	1.6	41.8	4200
150	19/3.28	1.4	50	1.0	1.7	43.0	5250
185	37/2.65	1.6	70	1.1	1.8	48.4	6620
240	37/2.94	1.7	95	1.1	2.0	54.5	8720

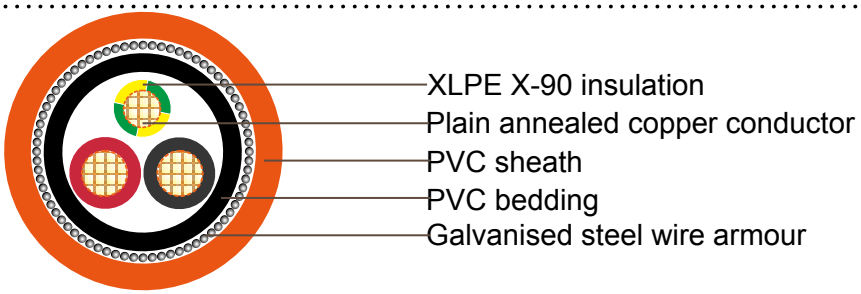
XLPE Insulated, PVC Sheathed 2 core+E Armored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: XLPE X-90.
Insulation colour: 2C + E - Red, Black, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @90°C mV/Am
16	97	130	100	1.15	1.47	0.0805	2.95
25	130	170	130	0.727	0.927	0.0808	1.86

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @90°C mV/Am
35	160	205	160	0.524	0.669	0.0786	1.35
50	195	245	190	0.387	0.494	0.0751	1.00
70	250	300	235	0.268	0.343	0.0741	0.703
95	310	360	285	0.193	0.248	0.0725	0.520
120	360	410	325	0.153	0.197	0.0713	0.423

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
16	7/1.70	0.7	6	0.7	15.3	1.25	21.6	1100
25	7/2.14	0.9	6	0.7	19.2	1.25	25.8	1310
35	7/2.65	0.9	10	0.7	21.3	1.6	26.8	1765
50	19/1.89	1.0	16	0.7	24.1	1.6	29.7	2185
70	19/2.24	1.1	25	0.9	28.2	1.6	33.6	2745
95	19/2.65	1.1	25	0.9	31.7	2.0	37.7	3650
120	19/2.94	1.2	35	0.9	35.4	2.0	41.8	4600

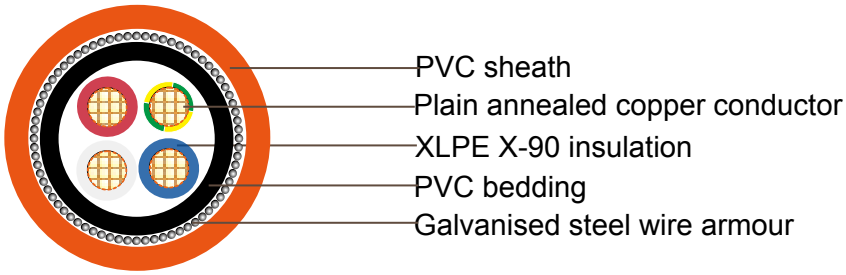
XLPE Insulated, PVC Sheathed 3 core+E Armored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: XLPE X-90
Insulation colour: 3C + E – Red, White, Blue, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
16	83	110	83	1.15	1.47	0.0805	2.55
25	110	145	110	0.727	0.927	0.0808	1.61

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
35	135	170	135	0.524	0.669	0.0786	1.17
50	170	205	160	0.387	0.494	0.0751	0.868
70	215	250	200	0.268	0.343	0.0741	0.609
95	265	300	240	0.193	0.248	0.0725	0.450
120	305	345	275	0.153	0.197	0.0713	0.366
150	350	385	310	0.124	0.160	0.0718	0.307
185	405	435	355	0.0991	0.129	0.0720	0.259
240	480	500	420	0.0754	0.0998	0.0709	0.216

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
16	7/1.70	0.7	6	0.7	17.5	1.25	22.8	1285
25	7/2.14	0.9	6	0.7	22.2	1.6	26.7	1845
35	7/2.65	0.9	10	0.7	23.5	1.6	28.7	2315
50	19/1.89	1.0	16	0.7	26.7	1.6	32.0	2935
70	19/2.24	1.1	25	0.9	31.7	2.0	38.3	3880
95	19/2.65	1.1	25	0.9	25.6	2.0	43.1	5250
120	19/2.94	1.2	35	0.9	39.9	2.0	45.4	5765
150	19/3.28	1.4	50	1.0	41.1	2.5	51.4	7560
185	37/2.65	1.6	70	1.1	46.1	2.5	56.6	9220
240	37/2.94	1.7	95	1.1	52.4	2.5	63.3	11740

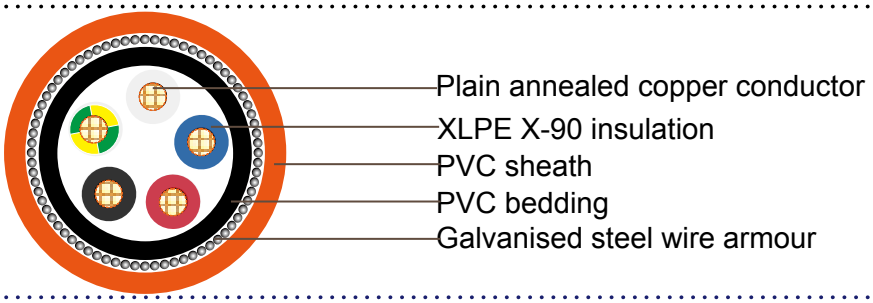
XLPE Insulated, PVC Sheathed 4 core+E Armored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: XLPE X-90.
Insulation colour: 4C + E - Red, White, Blue, black, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
16	83	110	83	1.15	1.47	0.0805	2.55
25	110	145	110	0.727	0.927	0.0808	1.61

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @90°C mV/Am
35	135	170	135	0.524	0.669	0.0786	1.17
50	170	205	160	0.387	0.494	0.0751	0.868
70	215	250	200	0.268	0.343	0.0741	0.609
95	265	300	240	0.193	0.248	0.0725	0.450
120	305	345	275	0.153	0.197	0.0713	0.366
150	350	385	310	0.124	0.160	0.0718	0.307
185	405	435	355	0.0991	0.129	0.0720	0.259
240	480	500	420	0.0754	0.0998	0.0709	0.216

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
16	7/1.70	0.7	6	0.7	19.4	1.6	26.3	1725
25	7/2.14	0.9	6	0.7	22.7	1.6	29.6	2335
35	7/2.65	0.9	10	0.7	24.4	1.6	31.5	2605
50	19/1.89	1.0	16	0.7	27.8	2.0	36.5	3860
70	19/2.24	1.1	25	0.9	33.4	2.0	41.8	5135
95	19/2.65	1.1	25	0.9	36.9	2.5	45.8	5900
120	19/2.94	1.2	35	0.9	38.1	2.5	51.7	9090
150	19/3.28	1.4	50	1.0	42.2	2.5	56.9	10410
185	37/2.65	1.6	70	1.1	52.2	2.5	63.1	11600
240	37/2.94	1.7	95	1.1	58.8	2.5	70.1	14700

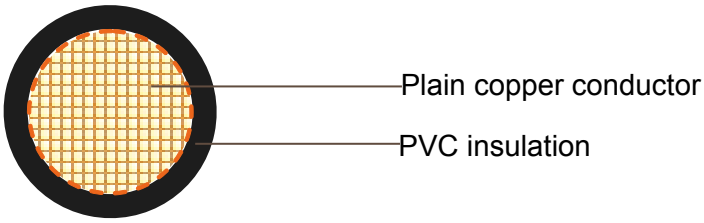
PVC Insulated, Single Core Cable, 450/750V

Application

These cables are used for switchboard and control panel wiring, and for fixed wiring within other enclosures or apparatus where the cable is not accessible without the use of tools.

Standard

AS/NZS 5000.2
AS 1125
AS 3808



Cable Construction

Conductor: Plain annealed copper.
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: Red/Black
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm^2	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop mV/Am
1	15	26	20	18.1	27.0	0.168	54.0
1.5	18	34	26	13.6	17.3	0.157	34.6
2.5	26	47	36	7.41	9.45	0.143	18.9
4	35	62	46	4.61	5.88	0.137	11.8
6	46	78	58	3.08	3.93	0.128	7.86
10	62	103	78	1.83	2.33	0.118	4.68
16	82	132	100	1.15	1.47	0.111	2.94

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	4.1	30
1.5	7/0.50	0.6	0.9	4.4	35
2.5	7/0.67	0.7	1	5.1	55
4	7/0.85	0.8	1.1	6.0	80
6	7/1.04	1.0	1.1	6.6	100
10	7/1.35	1.0	1.2	7.8	145
16	7/1.70	1.0	1.3	9.1	225

PVC Insulated, Round Cables, 450/750V

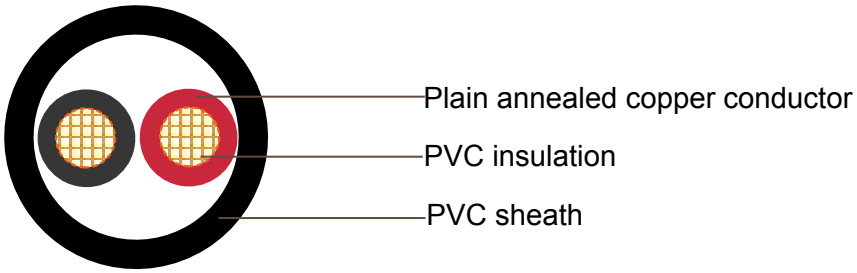
Application

These cables are used for control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage.

Standard

AS/NZS 5000.2
AS 1125
AS 3808

Cable Construction



Conductor: Plain annealed copper.
Maximum operating temperature: 90°C
Insulation: PVC V90.
Insulation colour: 2C: Red, Black
3C: Red, White & Blue
4C: Red, White, Blue, & Black
7-37C: White (Numbered)
Sheath: Polyvinylchloride compound PVC 5V90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Buried direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
2 cores							
1.5	21	31	24	13.6	16.5	0.111	33.0
2.5	30	44	34	7.41	9.01	0.102	18.0
Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Buried direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
3 cores							
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.097	6.49
4 cores							
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.097	6.49
7-37 cores							
1.0	14	21	17	18.1	25.8	0.119	51.6
1.5	17	26	21	13.6	16.5	0.111	33.0
2.5	25	37	29	7.41	9.01	0.102	18.0

Cable Parameter

2 cores

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	8.0	95
2.5	7/0.67	0.7	1	9.6	140

3 cores

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	8.5	120
2.5	7/0.67	0.7	1	10.1	170
4	7/0.85	0.8	1.1	11.7	240
6	7/1.04	1.0	1.1	13.2	300

4 cores

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	9.2	130
2.5	7/0.67	0.7	1	11.4	210
4	7/0.85	0.8	1.1	12.4	280
6	7/1.04	1.0	1.1	13.8	330

7 cores

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	10.0	150
1.5	7/0.50	0.6	0.9	11.4	195
2.5	7/0.67	0.7	1	13.3	300

12 cores

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	12.9	240
1.5	7/0.50	0.6	0.9	15.0	320
2.5	7/0.67	0.7	1	17.5	490

19 cores

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	14.9	350
1.5	7/0.50	0.6	0.9	16.8	450
2.5	7/0.67	0.7	1	21.0	760

27 cores

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	17.9	480
1.5	7/0.50	0.6	0.9	21.1	670
2.5	7/0.67	0.7	1	24.8	1030

37 cores

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	21.2	690
1.5	7/0.50	0.6	0.9	22.7	840
2.5	7/0.67	0.7	1	27.9	1380

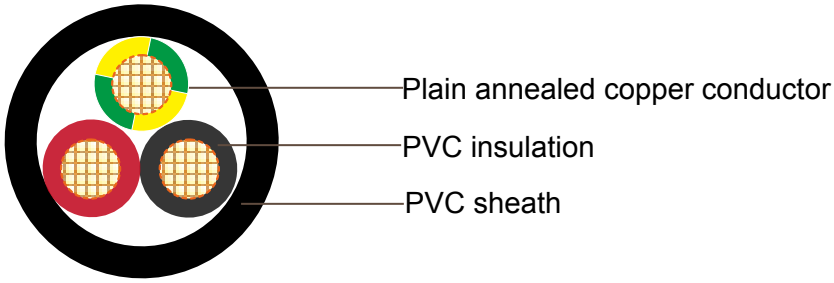
PVC Insulated, PVC Sheathed 2 core+E Round Cables, 450/750V

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 2C + E - Red, Black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
1.5	21	31	24	13.6	16.5	0.111	33.0
2.5	30	44	34	7.41	9.01	0.102	18.0
4	39	57	44	4.61	5.61	0.102	11.2
6	50	72	56	3.08	3.75	0.097	7.50

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	1.5	0.9	8.5	110
2.5	7/0.67	0.7	2.5	1	10.1	170
4	7/0.85	0.8	2.5	1.1	11.2	220
6	7/1.04	1.0	2.5	1.1	12.3	250

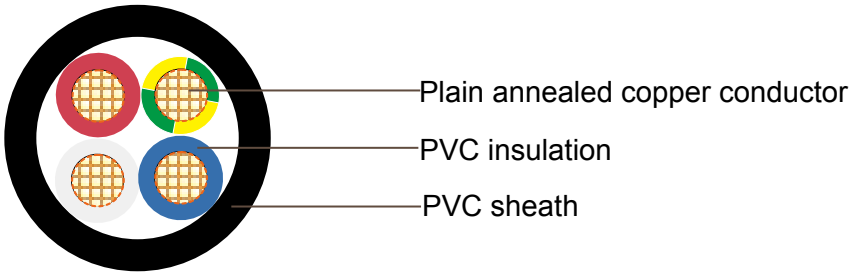
PVC Insulated, PVC Sheathed 3 core+E Round Cables, 450/750V

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 3C + E – Red, White, Blue, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.0967	6.49

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	1.5	0.9	9.2	130
2.5	7/0.67	0.7	2.5	1	11.4	210
4	7/0.85	0.8	2.5	1.1	12.4	280
6	7/1.04	1.0	2.5	1.1	13.8	330

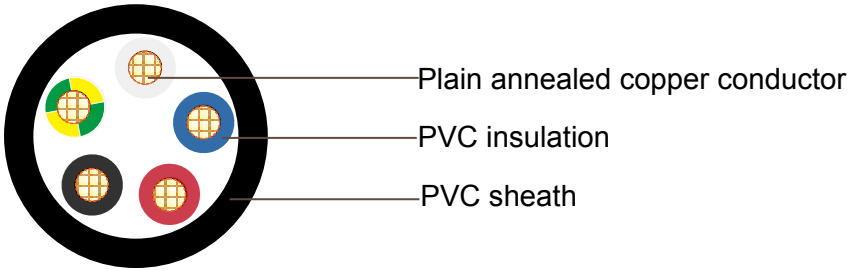
PVC Insulated, PVC Sheathed 4 core+E Round Cables, 450/750V

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 4C + E - Red, White, Blue, black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.0967	6.49

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	1.5	0.9	10.0	145
2.5	7/0.67	0.7	2.5	1	12.1	230
4	7/0.85	0.8	2.5	1.1	13.6	320
6	7/1.04	1.0	2.5	1.1	15.9	430

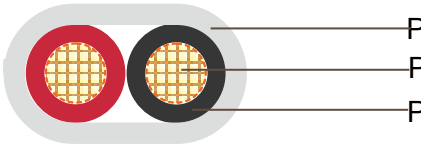
PVC Insulated, 2 Cores Flat Cables, 450/750V

Application

These cables are used for general wiring, unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage. Suitable for lighting and applications not requiring earth.

Standard

AS/NZS 5000.2
AS 1125
AS 3808



Cable Construction

Conductor: Plain annealed copper.
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: 2C cable: Red, Black
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm^2	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop mV/Am
1	16	8	19	18.1	27.0	0.119	54.0
1.5	21	10	24	13.6	17.3	0.111	34.6
2.5	30	15	34	7.41	9.45	0.102	18.9
4	39	19	44	4.61	5.88	0.102	11.8
6	50	25	56	3.08	3.93	0.0967	7.86

Australian Standard

Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop mV/Am
10	68	34	75	1.83	2.33	0.0906	4.68
16	91	46	97	1.15	1.47	0.0861	2.94

Cable Parameter

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm		Approx. mass kg/km
				Min	Max	
1.0	1/1.13	0.6	0.9	6.5x4.1	6.9x4.4	50
1.5	7/0.50	0.6	0.9	7.2x4.5	7.6x4.8	65
2.5	7/0.67	0.7	1	8.7x5.4	9.2x5.7	105
4	7/0.85	0.8	1.1	10.3x6.3	10.9x6.6	145
6	7/1.04	1.0	1.1	11.5x6.8	12.0x7.2	195
10	7/1.35	1.0	1.2	14.1x8.3	14.7x8.7	295
16	7/1.70	1.0	1.3	16.4x9.5	17.1x10.0	435

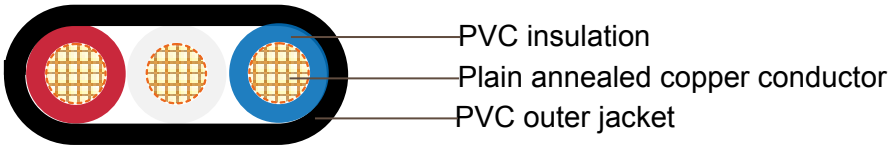
PVC Insulated, 3 Cores Flat Cables, 450/750V

Application

These cables are used for general wiring, unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage. Suitable for two way or intermediate switching applications.

Standard

AS/NZS 5000.2
AS 1125
AS 3808



Cable Construction

Conductor: Plain annealed copper.
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: 3C cable: Red, White, Blue
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm^2	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop mV/Am
1	14	7	17	18.1	27.0	0.119	54.1
1.5	17	9	21	13.6	17.3	0.111	34.7
2.5	25	13	29	7.41	9.45	0.102	19.0
4	33	17	37	4.61	5.85	0.102	11.8

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm		Approx. mass kg/km
				Min	Max	
1.0	1/1.13	0.6	0.9	8.8x4.1	9.3x4.4	75
1.5	7/0.50	0.6	0.9	9.9x4.5	10.4x4.8	95
2.5	7/0.67	0.7	1	12.1x5.4	12.7x5.7	145
4	7/0.85	0.8	1.1	14.7x6.4	15.4x6.7	220

PVC Insulated, 4 Cores Flat Cables, 450/750V

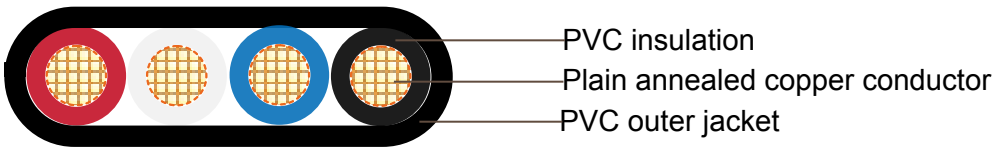
Application

These cables are used for general wiring, unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage.

Standard

AS/NZS 5000.2
AS 1125
AS 3808

Cable Construction



Conductor: Plain annealed copper.
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: 4C cable: Red, White, Blue, Black
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop mV/Am
1	14	7	17	18.1	27.0	0.119	46.8
1.5	17	9	21	13.6	17.3	0.111	30.0
2.5	25	13	29	7.41	9.45	0.102	16.4
4	33	17	37	4.61	5.88	0.102	10.2

Cable Parameter

Nom. conductor area mm²	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm		Approx. mass kg/km
				Min	Max	
1.0	1/1.13	0.6	0.9	11.1x4.1	11.8x4.4	95
1.5	7/0.50	0.6	0.9	12.6x4.5	13.3x4.8	120
2.5	7/0.67	0.7	1	15.6x5.4	16.4x5.7	190
4	7/0.85	0.8	1.1	18.8x6.4	19.7x6.7	290

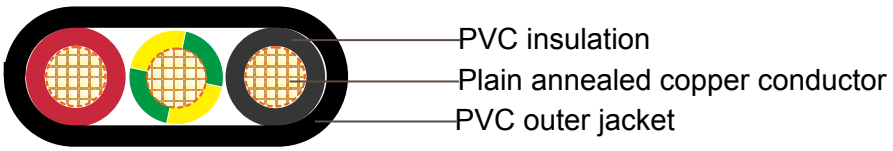
PVC Insulated, 2 Core + E Flat Cables, 450/750V

Application

These cables are used for general wiring, unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage. Suitable for single phase applications requiring neutral and E.

Standard

AS/NZS 5000.2,
AS 1125, AS 3808



Cable Construction

Conductor: Plain annealed copper
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: Red, Black, Green/yellow
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop mV/Am
1	16	8	19	18.1	27.0	0.119	54.1
1.5	21	10	24	13.6	17.3	0.111	34.7
2.5	30	15	34	7.41	9.45	0.102	19.0
4	39	19	44	4.61	5.88	0.102	11.8
6	50	25	56	3.08	3.93	0.0967	7.9
10	68	34	75	1.83	2.33	0.0906	4.7
16	91	46	97	1.15	1.47	0.0861	2.95

Australian Standard

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	earth conductor area mm^2	Nom. sheath thickness mm	Nom. overall diameter mm		Approx. mass kg/km
					Min	Max	
1.0	1/1.13	0.6	1.0	0.9	8.8x4.1	9.3x4.4	75
1.5	7/0.50	0.6	1.5	0.9	10.0x4.5	10.0x4.5	95
2.5	7/0.67	0.7	2.5	1	12.1x5.4	12.7x5.7	145
4	7/0.85	0.8	2.5	1.1	13.7x6.3	14.4x6.6	220
6	7/1.04	1.0	2.5	1.1	14.9x6.9	15.6x7.3	290
10	7/1.35	1.0	4	1.2	18.9x8.3	19.0x8.7	440
16	7/1.70	1.0	6	1.3	21.0x9.5	22.0x10.0	645

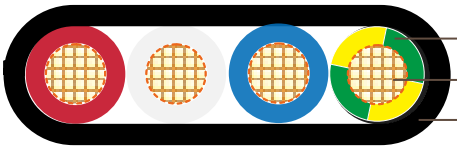
PVC Insulated, 3 Core + E Flat Cables, 450/750V

Application

These cables are used for general wiring, unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage. Suitable for balanced three phase applications with E.

Standard

AS/NZS 5000.2,
AS 1125, AS 3808



Cable Construction

Conductor: Plain annealed copper
Maximum operating temperature: 90°C
Insulation: PVC V90
Insulation colour: Red, White, Blue, Green/yellow
Sheath: Polyvinylchloride compound PVC 3V90
Sheath colour: White, other colors are available upon request

Technical Characteristics

Conductor Nominal Area mm²	Current Ratings			Electrical Characteristics			
	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop mV/Am
1	14	7	17	18.1	27.0	0.119	46.8
1.5	17	9	21	13.6	17.3	0.111	30.0
2.5	25	13	29	7.41	9.45	0.102	16.4
4	33	17	37	4.61	5.88	0.102	10.2
6	42	22	47	3.08	3.93	0.0967	6.8
10	58	29	63	1.83	2.33	0.0906	4.05
16	78	39	81	1.15	1.47	0.0861	2.55

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	earth conductor area mm^2	Nom. sheath thickness mm	Nom. overall diameter mm		Approx. mass kg/km
					Min	Max	
1.0	1/1.13	0.6	1.0	0.9	11.1x4.1	11.8x4.4	95
1.5	7/0.50	0.6	1.5	0.9	12.6x4.5	13.3x4.8	120
2.5	7/0.67	0.7	2.5	1	15.6x5.4	16.4x5.7	190
4	7/0.85	0.8	2.5	1.1	17.7x6.2	18.6x6.7	290
6	7/1.04	1.0	2.5	1.1	19.5x6.9	20.4x7.3	370
10	7/1.35	1.0	4	1.2	24.0x8.2	24.5x8.7	540
16	7/1.70	1.0	6	1.3	27.8x9.5	29.1x10.0	820

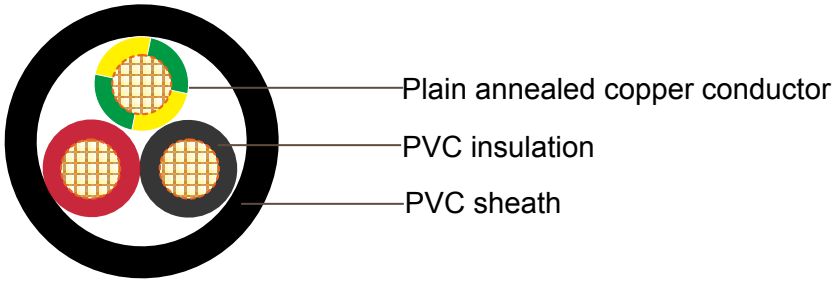
PVC Insulated, PVC Sheathed 2 core+E Unarmored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 2C + E - Red, Black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
1.5	18	14	22	13.6	16.5	0.111	33.0
2.5	26	20	31	7.41	9.01	0.102	18.0
4	34	26	40	4.61	5.61	0.102	11.2
6	44	34	51	3.08	3.75	0.0967	7.50
10	60	47	68	1.83	2.23	0.0906	4.46

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
16	80	63	88	1.15	1.40	0.0861	2.81
25	105	88	115	0.727	0.884	0.0853	1.78
35	130	105	140	0.524	0.638	0.0826	1.28
50	160	125	165	0.387	0.471	0.0797	0.957
70	200	155	205	0.268	0.327	0.0770	0.673
95	250	190	250	0.193	0.236	0.0766	0.498

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	10.6	160
2.5	7/0.67	0.8	2.5	0.7	11.6	220
4	7/0.85	1.0	2.5	0.7	13.1	295
6	7/1.04	1.0	2.5	0.7	14.2	335
10	7/1.35	1.0	4	1.0	15.9	440
16	7/1.70	1.0	6	1.0	17.9	620
25	7/2.14	1.2	6	1.0	21.6	840
35	7/2.65	1.2	10	1.0	22.8	1090
50	19/1.89	1.4	16	1.0	25.8	1465
70	19/2.24	1.4	25	1.2	30.4	1900
95	19/2.65	1.6	25	1.2	34.8	2500

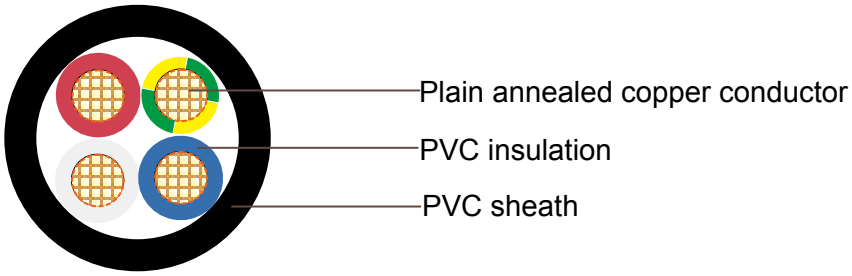
PVC Insulated, PVC Sheathed 3 core+E Unarmored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 3C + E – Red, White, Blue, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	15	13	19	13.6	16.5	0.111	28.6
2.5	22	18	26	7.41	9.01	0.102	15.6
4	29	24	34	4.61	5.61	0.102	9.71
6	37	31	43	3.08	3.75	0.0967	6.49
10	51	42	57	1.83	2.23	0.0906	3.86

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
16	68	56	74	1.15	1.40	0.0861	2.43
25	91	79	96	0.727	0.884	0.0853	1.54
35	110	92	115	0.524	0.638	0.0826	1.11
50	135	110	140	0.387	0.471	0.0797	0.829
70	170	140	175	0.268	0.327	0.0770	0.583
95	215	165	210	0.193	0.236	0.0766	0.431
120	245	195	240	0.153	0.188	0.0743	0.351
150	280	225	270	0.124	0.153	0.0745	0.296
185	325	260	310	0.0991	0.123	0.0744	0.251
240	385	305	370	0.0754	0.0955	0.0735	0.210

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	11.5	190
2.5	7/0.67	0.8	2.5	0.7	12.6	250
4	7/0.85	1.0	2.5	0.7	14.2	350
6	7/1.04	1.0	2.5	0.7	15.4	400
10	7/1.35	1.0	4.0	1.0	17.5	605
16	7/1.70	1.0	6.0	1.0	19.8	825
25	7/2.14	1.2	6.0	1.0	23.5	1190
35	7/2.65	1.2	6.0	1.0	25.0	1535
50	19/1.89	1.4	16	1.0	30.4	2175
70	19/2.24	1.4	25	1.2	33.0	2870
95	19/2.65	1.6	25	1.2	38.4	3880
120	19/2.94	1.6	35	1.2	40.6	4640
150	19/3.28	1.8	50	1.4	45.2	5500
185	37/2.65	2.0	70	1.4	50.3	6930
240	37/2.94	2.2	95	1.6	57.2	9170

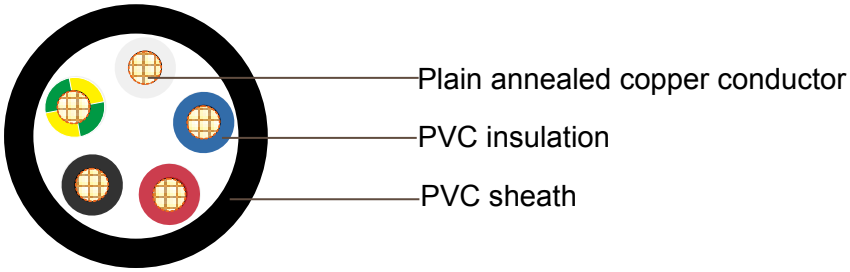
PVC Insulated, PVC Sheathed 4 core+E Unarmored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 4C + E - Red, White, Blue, black, Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	15	13	19	13.6	16.5	0.111	28.6
2.5	22	18	26	7.41	9.01	0.102	15.6
4	29	24	34	4.61	5.61	0.102	9.71
6	37	31	43	3.08	3.75	0.0967	6.49
10	51	42	57	1.83	2.23	0.0906	3.86

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
16	68	56	74	1.15	1.40	0.0861	2.43
25	91	79	96	0.727	0.884	0.0853	1.54
35	110	92	115	0.524	0.638	0.0826	1.11
50	135	110	140	0.387	0.471	0.0797	0.829
70	170	140	175	0.268	0.327	0.0770	0.583
95	215	165	210	0.193	0.236	0.0766	0.431
120	245	195	240	0.153	0.188	0.0743	0.351
150	280	225	270	0.124	0.153	0.0745	0.296
185	325	260	310	0.0991	0.123	0.0744	0.251
240	385	305	370	0.0754	0.0955	0.0735	0.210

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	12.4	225
2.5	7/0.67	0.8	2.5	0.7	13.7	280
4	7/0.85	1.0	2.5	0.7	15.6	400
6	7/1.04	1.0	2.5	0.7	16.8	510
10	7/1.35	1.0	4.0	1.0	20.3	730
16	7/1.70	1.0	6.0	1.0	22.9	1015
25	7/2.14	1.2	6.0	1.0	26.9	1540
35*	7/2.65	1.2	10	1.0	27.7	1930
50*	19/1.89	1.4	16	1.0	33.5	2470
70*	19/2.24	1.4	25	1.2	37.0	3710
95*	19/2.65	1.6	25	1.2	44.8	5025
120*	19/2.94	1.6	35	1.2	48.5	5870
150*	19/3.28	1.8	50	1.4	51.0	7150
185*	37/2.65	2.0	70	1.4	56.7	8990
240*	37/2.94	2.2	95	1.6	64.6	11910

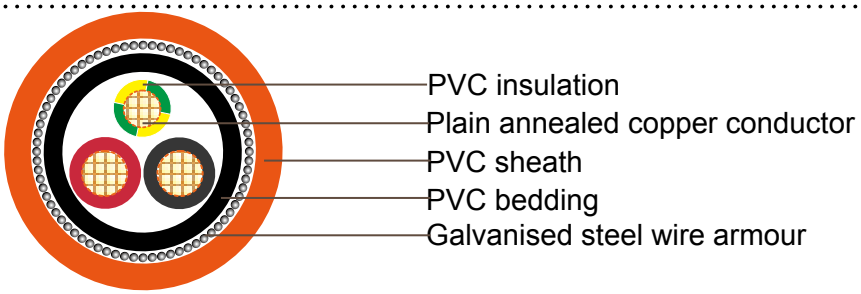
PVC Insulated, PVC Sheathed 2 core+E Armored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: Polyvinylchloride compound PVC V-90.
Insulation colour: 2C + E - Red, Black, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
1.5	18	28	22	13.6	16.5	0.111	33.0
2.5	26	40	31	7.41	9.01	0.102	18.0

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Single Phase Voltage Drop @75°C mV/Am
4	34	52	40	4.61	5.61	0.102	11.2
6	44	65	51	3.08	3.75	0.0967	7.50
10	60	87	68	1.83	2.23	0.0906	4.46
16	80	115	88	1.15	1.40	0.0861	2.81
25	105	145	115	0.727	0.884	0.0853	1.78
35	130	180	140	0.524	0.638	0.0826	1.28
50	160	210	165	0.387	0.471	0.0797	0.957
70	200	260	205	0.268	0.327	0.0770	0.673
95	250	310	250	0.193	0.236	0.0766	0.498

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	9.0	0.9	14.5	470
2.5	7/0.67	0.8	2.5	0.7	10.0	0.9	15.6	490
4	7/0.85	1.0	2.5	0.7	11.4	0.9	16.9	690
6	7/1.04	1.0	2.5	0.7	12.5	0.9	18.0	765
10	7/1.35	1.0	4.0	1.0	14.2	1.25	20.5	937
16	7/1.70	1.0	6.0	1.0	16.3	1.25	22.5	1295
25	7/2.14	1.2	6.0	1.0	20.0	1.6	27.0	1600
35	7/2.65	1.2	10	1.0	21.7	1.6	28.1	1775
50	19/1.89	1.4	16	1.0	24.7	1.6	31.3	2215
70	19/2.24	1.4	25	1.2	28.7	2.0	35.1	2880
95	19/2.65	1.6	25	1.2	32.6	2.0	40.4	3910

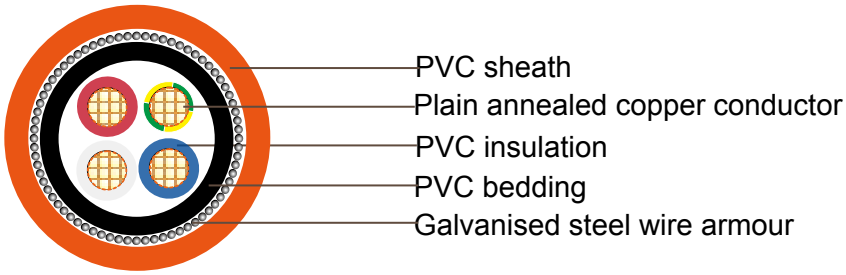
PVC Insulated, PVC Sheathed 3 core+E Armored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper
Insulation: Polyvinylchloride compound PVC V-90
Insulation colour: 3C + E – Red, White, Blue, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	15	24	19	13.6	16.5	0.111	28.6
2.5	22	34	26	7.41	9.01	0.102	15.6

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75C mV/Am
4	29	44	34	4.61	5.61	0.102	9.71
6	37	55	43	3.08	3.75	0.0967	6.49
10	51	74	57	1.83	2.23	0.0906	3.86
16	68	96	74	1.15	1.40	0.0861	2.43
25	91	125	96	0.727	0.884	0.0853	1.54
35	110	150	115	0.524	0.638	0.0826	1.11
50	135	180	140	0.387	0.471	0.0797	0.829
70	170	220	175	0.268	0.327	0.0770	0.583
95	215	265	210	0.193	0.236	0.0766	0.431
120	245	300	240	0.153	0.188	0.0743	0.351
150	280	335	270	0.124	0.153	0.0745	0.296
185	325	380	310	0.0991	0.123	0.0744	0.251
240	385	440	370	0.0754	0.0955	0.0735	0.210

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.8	9.8	0.9	15.4	400
2.5	7/0.67	0.8	2.5	0.8	10.9	0.9	16.5	545
4	7/0.85	1.0	2.5	0.8	12.5	1.25	18.8	770
6	7/1.04	1.0	2.5	0.8	13.7	1.25	20.0	880
10	7/1.35	1.0	4.0	1.0	15.8	1.25	22.1	1160
16	7/1.70	1.0	6.0	1.0	18.1	1.6	25.1	1560
25	7/2.14	1.2	6.0	1.0	21.8	1.6	28.8	2100
35	7/2.65	1.2	10	1.0	23.8	1.6	30.3	2480
50	19/1.89	1.4	16	1.0	26.7	2.0	34.1	3140
70	19/2.24	1.4	25	1.2	31.4	2.0	39.8	4455
95	19/2.65	1.6	25	1.2	35.9	2.5	43.9	5520
120	19/2.94	1.6	35	1.2	39.5	2.5	47.5	6790
150	19/3.28	1.8	50	1.4	43.2	2.5	53.4	7970
185	37/2.65	2.0	70	1.4	48.0	2.5	58.7	9660
240	37/2.94	2.2	95	1.6	54.9	2.5	66.0	12330

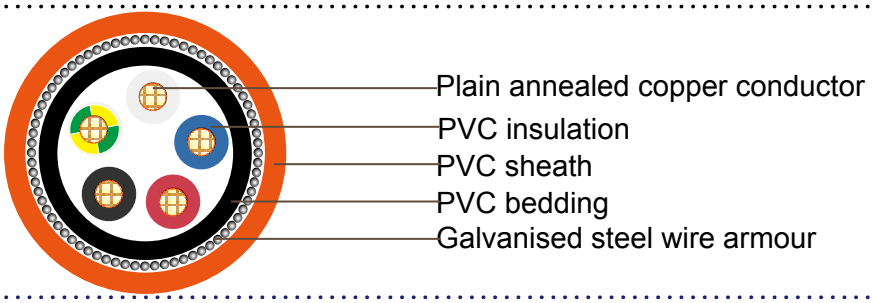
PVC Insulated, PVC Sheathed 4 core+E Armored Cables 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90.
Insulation colour: 4C + E - Red, White, Blue, black, Green/yellow
Bedding: Polyvinylchloride compound PVC 5V-90
Bedding colour: Black
Armour: Galvanised Steel Wire
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	15	24	19	13.6	16.5	0.111	28.6
2.5	22	34	26	7.41	9.01	0.102	15.6

Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
4	29	44	34	4.61	5.61	0.102	9.71
6	37	55	43	3.08	3.75	0.0967	6.49
10	51	74	57	1.83	2.23	0.0906	3.86
16	68	96	74	1.15	1.40	0.0861	2.43
25	91	125	96	0.727	0.884	0.0853	1.54
35	110	150	115	0.524	0.638	0.0826	1.11
50	135	180	140	0.387	0.471	0.0797	0.829
70	170	220	175	0.268	0.327	0.0770	0.583
95	215	265	210	0.193	0.236	0.0766	0.431
120	245	300	240	0.153	0.188	0.0743	0.351
150	280	335	270	0.124	0.153	0.0745	0.296
185	325	380	310	0.0991	0.123	0.0744	0.251
240	385	440	370	0.0754	0.0955	0.0735	0.210

Cable Parameter

Nom. conductor area mm^2	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	10.7	0.9	16.3	545
2.5	7/0.67	0.8	2.5	0.7	12.0	0.9	17.6	635
4	7/0.85	1.0	2.5	0.7	13.9	1.25	20.2	900
6	7/1.04	1.0	2.5	0.7	15.9	1.25	22.2	1050
10	7/1.35	1.0	4.0	1.0	17.5	1.6	24.5	1490
16	7/1.70	1.0	6.0	1.0	21.2	1.6	28.2	1810
25	7/2.14	1.2	6.0	1.0	24.4	1.6	32.2	2530
35	7/2.65	1.2	10	1.0	26.1	1.6	33.3	2990
50	19/1.89	1.4	16	1.0	30.4	2.0	38.8	4140
70	19/2.24	1.4	25	1.2	35.1	2.0	43.7	5470
95	19/2.65	1.6	25	1.2	39.6	2.5	49.6	7250
120	19/2.94	1.6	35	1.2	43.9	2.5	54.1	9090
150	19/3.28	1.8	50	1.4	48.5	2.5	59.1	9900
185	37/2.65	2.0	70	1.4	54.3	2.5	65.4	12110
240	37/2.94	2.2	95	1.6	61.6	3.15	74.7	16320

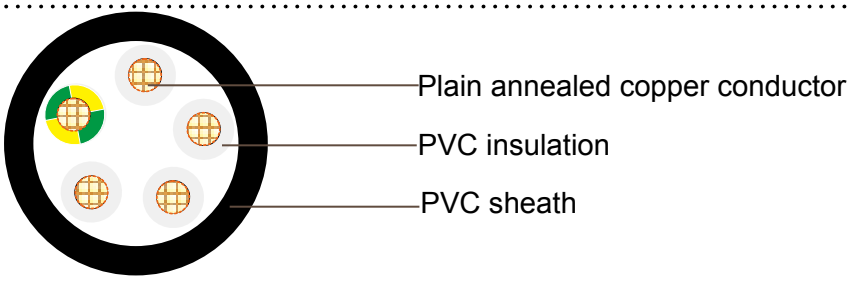
PVC Insulated, PVC Sheathed Multi-core+E Control Cables 0.6/1kV

Application

These cables are used for control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90.
Insulation colour: White(black letter numbered), Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5mm^2							
2C+E	18	14	22	13.6	16.5	0.111	33.0
3-50C+ E	15	13	19	13.6	16.5	0.111	33.0
2.5mm^2							
2C+E	26	20	31	7.41	9.01	0.102	18.0
3-50C+ E	22	18	26	7.41	9.01	0.102	18.0

Cable Parameter

No. of Cores	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5mm^2						
2C+ E	7/0.50	0.8	1.5	0.6	10.6	165
3C+ E	7/0.50	0.8	1.5	0.6	11.5	190
4C+ E	7/0.50	0.8	1.5	0.6	12.4	215
6C+ E	7/0.50	0.8	1.5	0.6	13.4	275
8C+ E	7/0.50	0.8	1.5	0.6	16.6	340
10C+ E	7/0.50	0.8	1.5	0.6	16.9	375
12C+ E	7/0.50	0.8	1.5	0.6	17.9	435
15C+ E	7/0.50	0.8	1.5	0.6	18.9	525
20C+ E	7/0.50	0.8	1.5	0.6	20.7	680
25C+ E	7/0.50	0.8	1.5	0.6	22.9	785
30C+ E	7/0.50	0.8	1.5	0.6	25.8	845
40C+ E	7/0.50	0.8	1.5	0.6	28.0	1190
50C+ E	7/0.50	0.8	1.5	0.6	30.8	1290
2.5mm^2						
2C+ E	7/0.67	0.8	2.5	0.7	11.6	210
3C+ E	7/0.67	0.8	2.5	0.7	12.6	250
4C+ E	7/0.67	0.8	2.5	0.7	13.7	285
6C+ E	7/0.67	0.8	2.5	0.7	14.8	365
8C+ E	7/0.67	0.8	2.5	0.7	18.4	455
10C+ E	7/0.67	0.8	2.5	0.7	19.9	530
12C+ E	7/0.67	0.8	2.5	0.7	20.0	605
15C+ E	7/0.67	0.8	2.5	0.7	21.0	715
20C+ E	7/0.67	0.8	2.5	0.7	25.7	950
25C+ E	7/0.67	0.8	2.5	0.7	26.3	1095
30C+ E	7/0.67	0.8	2.5	0.7	28.3	1200
40C+ E	7/0.67	0.8	2.5	0.7	33.5	1565
50C+ E	7/0.67	0.8	2.5	0.7	35.0	1925

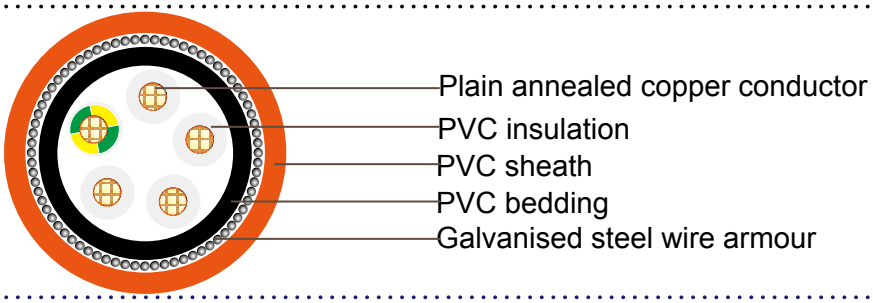
PVC Insulated, PVC Sheathed Multicore+E Armored Control Cables 0.6/1kV

Application

These cables are used for control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where mechanical damage may occur.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Cable Construction

Conductor: Plain annealed copper.
Insulation: Polyvinylchloride compound PVC V-90.
Insulation colour: White(black letter numbered), Green/yellow
Sheath: Polyvinylchloride compound PVC 5V-90
Sheath colour: Orange, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
$1.5mm^2$							
2C+E	18	14	22	13.6	16.5	0.111	33.0
3-50C+ E	15	13	19	13.6	16.5	0.111	33.0
$2.5mm^2$							
2C+E	26	20	31	7.41	9.01	0.102	18.0
3-50C+ E	22	18	26	7.41	9.01	0.102	18.0

Australian Standard

Cable Parameter

No. of Cores	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm^2	Nom. earth conductor insulation thickness mm	Nom. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
1.5mm^2								
2C+ E	7/0.50	0.8	1.5	0.6	9.0	0.90	14.5	405
3C+ E	7/0.50	0.8	1.5	0.6	9.8	0.90	15.4	440
4C+ E	7/0.50	0.8	1.5	0.6	10.7	0.90	16.3	550
6C+ E	7/0.50	0.8	1.5	0.6	11.7	0.90	17.3	690
8C+ E	7/0.50	0.8	1.5	0.6	13.6	1.25	19.9	770
10C+ E	7/0.50	0.8	1.5	0.6	14.9	1.25	21.2	920
12C+ E	7/0.50	0.8	1.5	0.6	16.2	1.25	22.5	1010
15C+ E	7/0.50	0.8	1.5	0.6	17.1	1.60	23.4	1110
20C+ E	7/0.50	0.8	1.5	0.6	19.0	1.60	26.0	1535
25C+ E	7/0.50	0.8	1.5	0.6	21.7	1.60	28.7	1670
30C+ E	7/0.50	0.8	1.5	0.6	23.5	1.60	30.4	1840
40C+ E	7/0.50	0.8	1.5	0.6	26.4	1.60	34.8	2260
50C+ E	7/0.50	0.8	1.5	0.6	28.9	1.60	36.1	2400
2.5mm^2								
2C+ E	7/0.67	0.8	2.5	0.7	10.0	0.90	11.6	210
3C+ E	7/0.67	0.8	2.5	0.7	10.9	0.90	12.6	250
4C+ E	7/0.67	0.8	2.5	0.7	12.0	0.90	13.7	285
6C+ E	7/0.67	0.8	2.5	0.7	13.1	1.25	14.8	365
8C+ E	7/0.67	0.8	2.5	0.7	15.3	1.25	18.4	455
10C+ E	7/0.67	0.8	2.5	0.7	16.8	1.25	19.9	530
12C+ E	7/0.67	0.8	2.5	0.7	18.3	1.60	20.0	605
15C+ E	7/0.67	0.8	2.5	0.7	19.3	1.60	21.0	715
20C+ E	7/0.67	0.8	2.5	0.7	21.5	1.60	25.7	950
25C+ E	7/0.67	0.8	2.5	0.7	24.6	1.60	26.3	1095
30C+ E	7/0.67	0.8	2.5	0.7	26.6	1.60	28.3	1200
40C+ E	7/0.67	0.8	2.5	0.7	30.4	2.0	33.5	1565
50C+ E	7/0.67	0.8	2.5	0.7	33.3	2.0	35.0	1925

Flexible VSD/EMC Cables, 0.6/1kV

Application

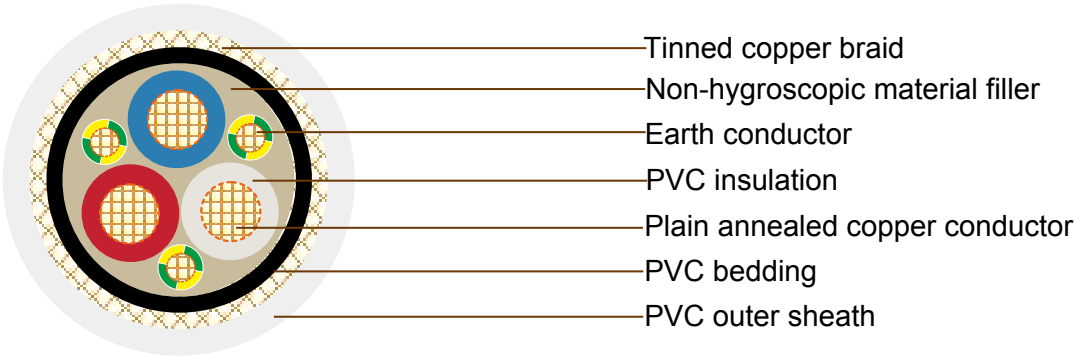
These cables are used for applications that require Electromagnetic Compatibilit (EMC), to minimise any interference or disturbance, propagation and reception of electromagnetic energy with reference to unwanted effects, and suitable for Variable Speed Drive equipment or other application requiring screened cable.

Standard

AS/NZS 5000.1, AS 1125, AS 3808

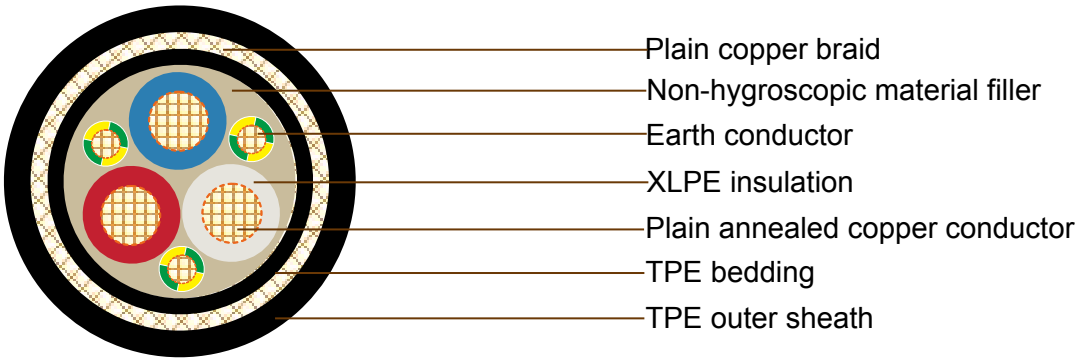
Cable Construction

TYPE 1



Conductor: Plain annealed copper, class 5 strands
Insulation: Flame retardant polyvinyl chloride PVC V75
Insulation colour: 3 cores + E: Red, White, Blue + Green/Yellow
4 cores + E: Red, White, Blue, Black + Green/Yellow
Filler: Non-hygroscopic material
Bedding: Flame retardant polyvinyl chloride PVC V75
Screen: Tinned annealed copper braid
Sheath: Flame retardant polyvinyl chloride PVC V75
Sheath colour: Transparent

TYPE 2



Conductor: Plain annealed copper, class 5 strands
Insulation: Cross -linked polyethylene (XLPE)
Insulation colour: 3 cores + E: Red, White, Blue + Green/Yellow
4 cores + E: Red, White, Blue, Black + Green/Yellow
Filler: Non-hygroscopic material
Bedding: Thermoplastic elastomer (TPE)
Screen: Plain annealed copper braid
Sheath: Thermoplastic elastomer (TPE)
Sheath colour: Black

Technical Characteristics

ELECTRICALCHARACTERISTICS

Nom. conductor area mm²	Max. wires Dia. Fine-wire strand mm	DC resistance at 20ºC Ohm/km	AC resistance at 75ºC Ohm/km	AC resistance at 90ºC Ohm/km	3-Phase at 75ºC Voltage Drop mV/A.m	3-Phase at 90ºC Voltage Drop mV/A.m	Reactance Type 1 cable Ohm/km	Reactance Type 2 cable Ohm/km
1.5	0.25	13.3	16.2	17.0	28.0	29.4	0.118	0.118
2.5	0.25	7.98	9.7	10.2	16.8	17.6	0.112	0.112
4	0.30	4.95	6.02	6.31	10.4	10.9	0.108	0.108
6	0.30	3.30	4.01	4.21	6.95	7.29	0.104	0.104
10	0.40	1.91	2.41	2.52	4.17	4.38	0.0982	0.102
16	0.40	1.21	1.47	1.54	2.55	2.68	0.0937	0.0970
25	0.40	0.780	0.889	0.932	1.55	1.62	0.0895	0.0921
35	0.40	0.554	0.652	0.684	1.14	1.19	-	0.0895
50	0.40	0.386	0.490	0.513	0.862	0.902	-	0.0893
70	0.50	0.272	0.325	0.340	0.581	0.608	-	0.0859

CURRENT RATING

Nom. conductor area	2 core a nd Earth				3 core and earth,		4 core and earth	
	Protected from sun		Exposed to sun		Protected from sun		Exposed to sun	
	V75	XLPE	V75	XLPE	V75	XLPE	V75	XLPE
mm²	A	A	A	A	A	A	A	A
6	44	54	34	43	38	46	29	37
10	60	74	46	58	52	63	39	50
16	81	99	60	77	70	85	51	66
25	110	135	80	105	95	115	68	88
35	135	165	95	125	115	140	81	105
50	160	195	110	145	140	165	96	125
70	205	250	140	185	175	215	120	155

Cable Parameter

TYPE 1

No. of Core	Nom. conductor area mm²	Core diameter mm	Earth conductor area mm²	Earth core diameter mm	Over bedding diameter mm	Cable diameter mm	Approx. mass kg/km
2C+E	1.5	3.2	1.5	3.2	9.8	14.48	220
2C+E	2.5	3.7	2.5	3.7	11.0	15.85	272
3C+E	1.0	2.9	1.0	2.7	9.1	13.62	205
3C+E	1.5	3.2	1.5	3.0	9.8	14.48	238
3C+E	2.5	3.7	2.5	3.5	11.0	15.85	299
3C+E	4	4.7	4	4.7	13.3	18.58	417
3C+3E	6	5.3	1.5	3.0	13.4	16.86	478
3C+3E	10	6.2	1.5	3.0	15.5	19.07	636
3C+3E	16	7.4	2.5	3.5	18.4	22.10	908
3C+3E	25	9.1	4	4.7	22.3	29.12	1357
3C+3E	35	10.3	6	5.3	25.3	32.71	1794
3C+3E	50	12.3	10	6.2	29.5	37.67	2480
3C+3E	70	14.0	10	6.2	33.5	42.75	3323
4C+E	1.5	3.2	1.5	3.0	9.2	13.79	239
4C+E	2.5	3.7	2.5	3.5	10.5	15.21	309
4C+E	4	4.7	2.5	3.5	12.4	17.49	415
4C+E	6	5.3	2.5	3.5	13.6	18.92	516

No. of Core	Nom. conductor area mm²	Core diameter mm	Earth conductor area mm²	Earth core diameter mm	Over bedding diameter mm	Cable diameter mm	Approx. mass kg/km
4C+E	10	6.2	4	4.7	16.1	21.87	753
4C+E	16	7.4	6	5.3	18.7	24.89	1054
4C+E	25	9.1	6	5.3	22.2	29.03	1499
4C+E	35	10.3	10	6.2	25.2	32.51	1987
4C+E	50	12.3	16	7.4	29.6	37.80	2766
4C+E	70	14.0	25	9.1	34.0	43.37	3877

TYPE 2

No. of Core	Nom. conductor area mm²	Core diameter mm	Earth conductor area mm²	Earth core diameter mm	Over bedding diameter mm	Cable diameter mm	Approx. mass kg/km
3C+E	1.5	3.2	1.5	3.0	8.8	12.26	201
3C+E	2.5	3.7	2.5	3.5	10.1	13.56	260
3C+3E	4	4.7	1.5	3.0	10.4	13.89	311
3C+3E	6	5.3	1.5	3.0	11.7	15.34	393
3C+3E	10	6.2	1.5	3.0	13.9	17.64	563
3C+3E	16	7.4	2.5	3.5	16.4	20.34	808
3C+3E	25	9.1	4	4.1	20.3	24.53	1206
3C+3E	35	10.3	6	4.7	23.1	27.49	1608
3C+3E	50	12.3	10	5.6	27.0	31.70	2248
3C+3E	70	14.0	10	5.6	31.4	36.84	3118
4C+E	1.5	3.2	1.5	3.0	9.4	12.65	222
4C+E	2.5	3.7	2.5	3.5	10.5	13.89	288
4C+E	4	4.7	2.5	3.5	11.6	15.05	362
4C+E	6	5.3	2.5	3.5	12.8	16.30	455
4C+E	10	6.2	4	4.7	15.2	18.88	676
4C+E	16	7.4	6	5.3	18.0	21.95	980
4C+E	25	9.1	6	5.3	21.6	25.78	1405
4C+E	35	10.3	10	6.2	24.9	29.25	1900
4C+E	50	12.3	16	7.4	28.8	33.46	2618
4C+E	70	14.0	25	9.1	33.6	38.97	3740

VSD/EMC Cables (Copper Tape Screened), 0.6/1kV

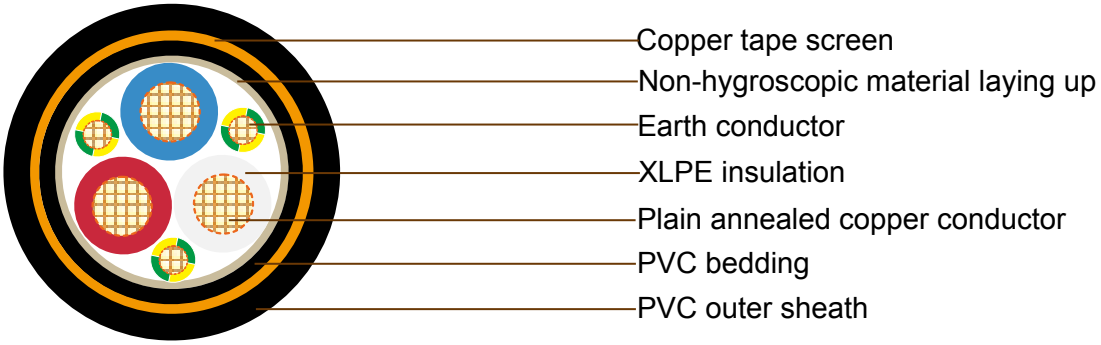
Application

These cables are used to supply motors from variable speed controls unenclosed, enclosed in conduit, mounted on tray, or in underground ducts for industrial plants, where not subject to mechanical damage. They are designed to significantly reduce radiated interference from electrical noise by using symmetrical, balanced and screened construction.

Standard

AS/NZS 5000.1, AS 1125, AS 3808

Cable Construction



Conductor: Plain annealed copper, class 2 strands
Insulation: XLPE, X-90
Insulation colour: Red, White, Blue & Green/Yellow
Laying up: Non-hygroscopic material(optional)
Bedding: Flame retardant polyvinyl chloride PVC V90
Screen: Plain annealed copper tape with 100% coverage
Sheath: Flame retardant polyvinyl chloride PVC V90
Sheath colour: Black

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
Nominal Area mm^2	Unenclosed Touching A	Unenclosed In Air A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop mV/Am
2.5	29	24	32	7.41	9.45	0.0988	16.4
4	39	32	41	4.61	5.88	0.0930	10.2
6	50	42	51	3.08	3.93	0.0887	6.80
10	68	58	68	1.83	2.33	0.0840	4.05
16	91	77	89	1.21	1.54	0.0805	2.68
25	121	108	118	0.780	0.932	0.0808	1.62
35	149	127	144	0.554	0.684	0.0786	1.19
50	187	154	171	0.386	0.513	0.0751	0.902
70	237	193	214	0.272	0.340	0.0741	0.608
95	292	231	257	0.206	0.266	0.0725	0.485
120	336	275	294	0.161	0.206	0.0713	0.387
150	385	308	332	0.129	0.162	0.0718	0.317
185	446	358	380	0.106	0.134	0.0720	0.275
240	528	424	449	0.0801	0.105	0.0709	0.233
300	605	-	508	0.0641	0.0836	0.0704	0.205

Cable Parameter

No. of Core	Nom. conductor area mm^2	Core diameter mm	Earth conductor area mm^2	Earth core diameter mm	Over bedding diameter mm	Cable diameter mm	Approx. mass kg/km
3C+E	2.5	3.7	2.5	3.5	10.9	15.0	330
3C+E	4	4.7	4	4.7	13	15.3	375
3C+3E	6	5.3	1.5	3.0	13.8	16.9	415
3C+3E	10	6.2	1.5	3.0	14.8	17.8	550
3C+3E	16	7.4	2.5	3.5	17	21.0	760
3C+3E	25	9.1	4	4.7	19.2	24.4	1130
3C+3E	35	10.3	6	5.3	21.9	27.2	1480
3C+3E	50	12.3	10	6.2	25.1	30.8	2110
3C+3E	70	14.0	10	6.2	28.1	35.7	2740
3C+3E	95	15.3	16	7.4	33.9	39.9	3590
3C+3E	120	17.1	16	7.4	38.9	43.8	4400
3C+3E	150	19.2	25	9.1	42.6	48.4	5450
3C+3E	185	21.5	25	9.1	47.5	54.1	6760
3C+3E	240	24.2	35	10.3	53.6	60.2	8600
3C+3E	300	26.8	50	12.3	59.6	66.3	10640

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