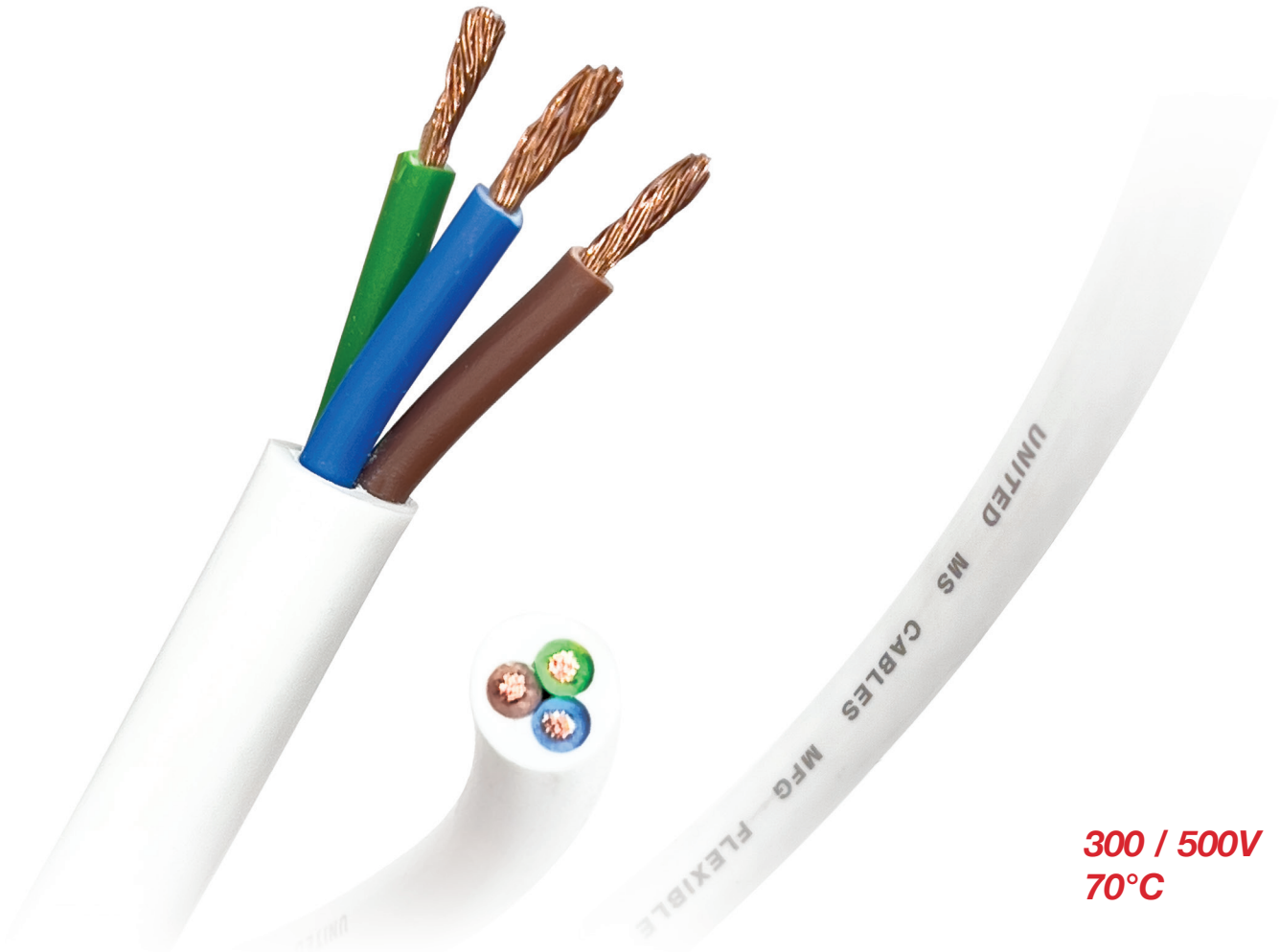
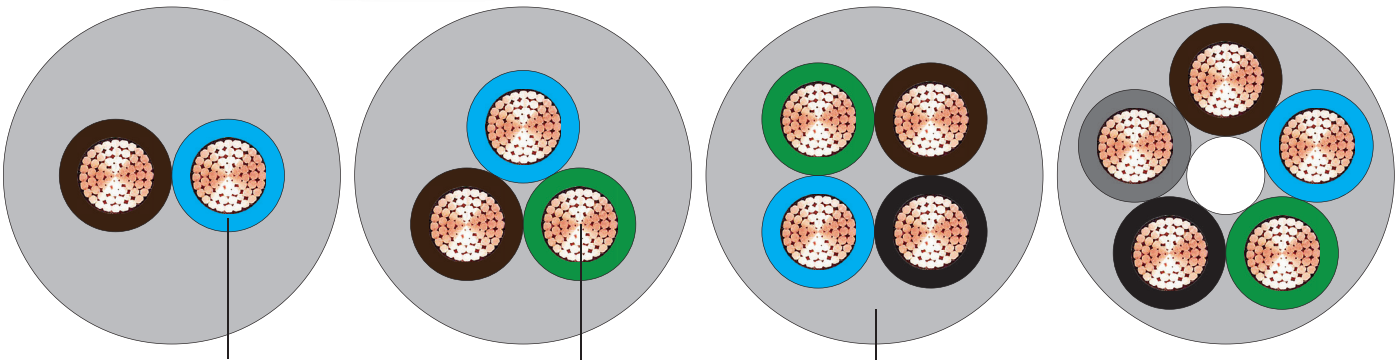
Flexible Conductor Cables

PVC Insulated PVC Sheathed Flexible Cord

Cables



300 / 500V
70°C



CONSTRUCTION

Conductor	:	Plain annealed copper conductor, Class 5
Insulation	:	PVC Compound
Colour of Insulation	:	2 Cores (Brown+Blue), 3 Cores (Brown+Blue+Green/Yellow), 4 Cores (Brown+Blue+Green/Yellow+Black), 5 Cores (Brown+Blue+Green/Yellow+Black+Grey)
Sheath	:	PVC Compound “Grey unless specified”

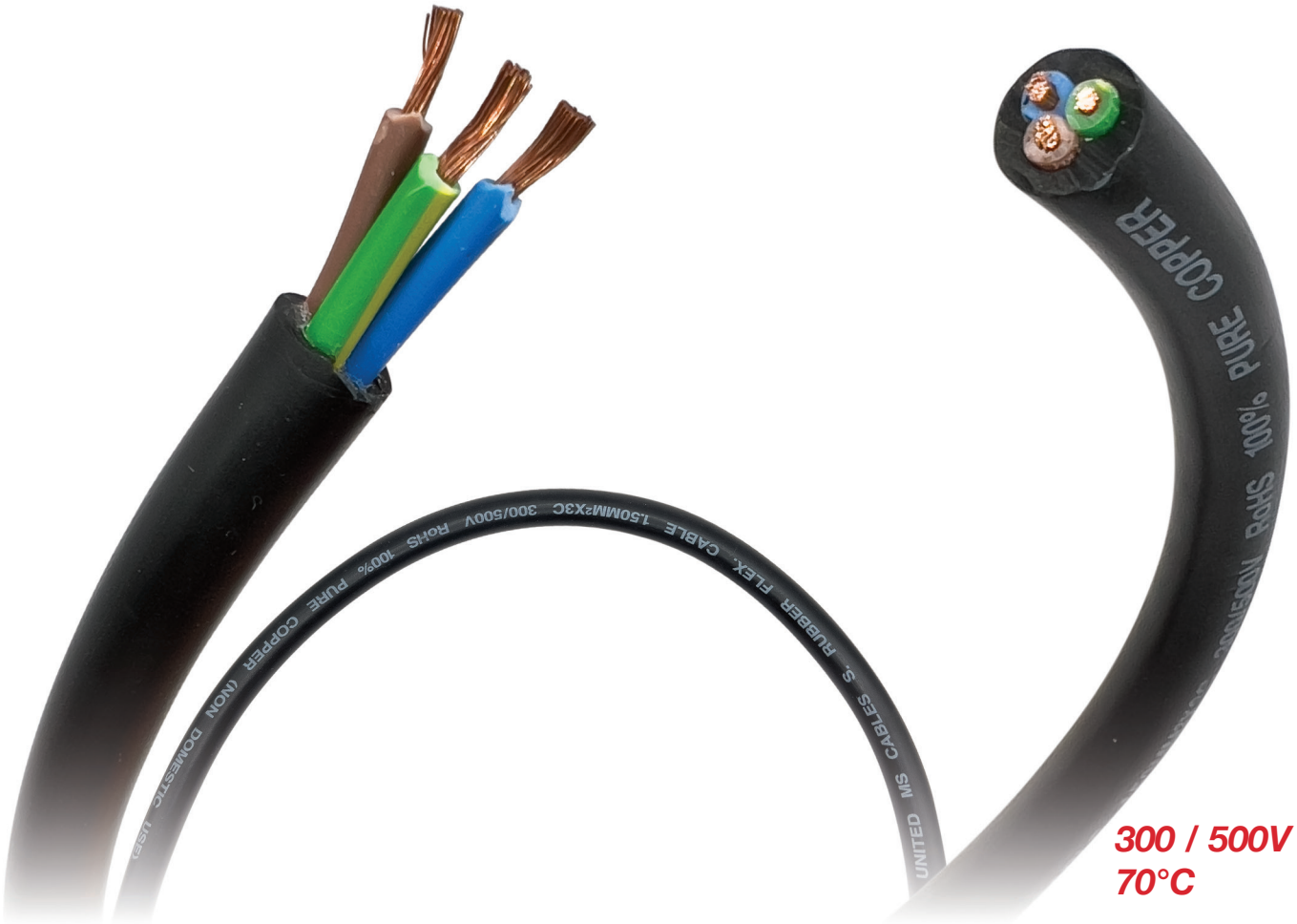
Flexible Conductor Cables

PVC Insulated PVC Sheathed Flexible Cord

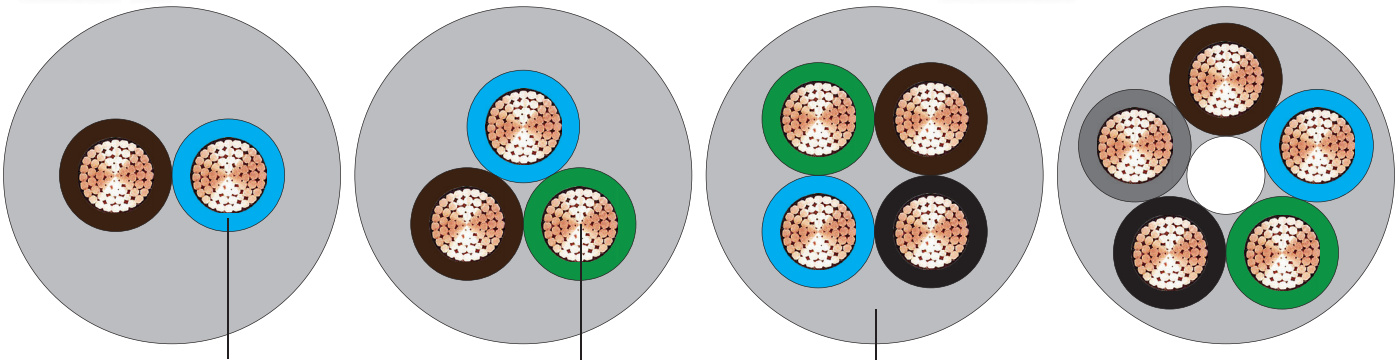
Cu / PVC / PVC

Number of Cores	Nominal Cross-Sectional Area	Voltage Rating	Construction Number/Wire Diameter	Thickness of Insulation	Thickness of Sheath	Overall Diameter
No.	Sq.mm	No./mm	No./mm	mm	mm	mm
MS2112-5, IEC60227-5, BS EN 50525-2-11 Flex Cords						
2	0.5	300/300	16/0.20	0.5	0.6	3.0x4.9 - 3.7x5.9
2	0.75	300/500	24/0.20	0.6	0.8	3.7x6.0 - 4.5x7.2
2	1	300/500	32/0.20	0.6	0.8	3.9x6.2 - 4.7x7.5
MS 2112-5, IEC 60227-5, BS EN 50525-2-11 Circular Cords						
2	0.5	300/300	16/0.20	0.5	0.6	4.6 - 5.9
2	0.75	300/300	24/0.20	0.5	0.6	4.9 - 6.3
3	0.5	300/300	16/0.20	0.5	0.6	4.9 - 6.3
3	0.75	300/300	24/0.20	0.5	0.6	5.2 - 6.7
2	0.75	300/500	24/0.20	0.6	0.8	5.7 - 7.2
2	1	300/500	32/0.20	0.6	0.8	5.9 - 7.5
**2	1.25	300/500	40/0.20	0.7	0.8	6.3 - 8.0
2	1.5	300/500	30/0.25	0.7	0.8	6.9 - 8.6
2	2.5	300/500	50/0.25	0.8	1	8.4 - 10.6
3	0.75	300/500	24/0.20	0.6	0.8	6.0 - 7.6
3	1	300/500	32/0.20	0.6	0.8	6.3 - 8.0
**3	1.25	300/500	40/0.20	0.7	0.9	6.9 - 8.7
3	1.5	300/500	30/0.25	0.7	0.9	7.4 - 9.4
3	2.5	300/500	50/0.25	0.8	1.1	9.2 - 11.4
3	4	300/500	56/0.30	0.8	1.2	10.5 - 13.1
4	0.75	300/500	24/0.20	0.6	0.8	6.6 - 8.3
4	1	300/500	32/0.20	0.6	0.9	7.1 - 9.0
4	1.5	300/500	30/0.25	0.7	1.0	8.4 - 10.5
4	2.5	300/500	50/0.25	0.8	1.1	10.1 - 12.5
4	4	300/500	56/0.30	0.8	1.2	11.5 - 14.3
5	0.75	300/500	24/0.20	0.6	0.9	7.4 - 9.3
5	1.0	300/500	32/0.20	0.6	0.9	7.8 - 9.8
5	1.5	300/500	30/0.25	0.7	1.1	9.3 - 11.6
5	2.5	300/500	50/0.25	0.8	1.2	11.2 - 13.9
5	4.0	300/500	56/0.30	0.8	1.4	13.0 - 16.1

Cables



300 / 500V
70°C



PVC Insulation | Copper | Synthetic Rubber

CONSTRUCTION

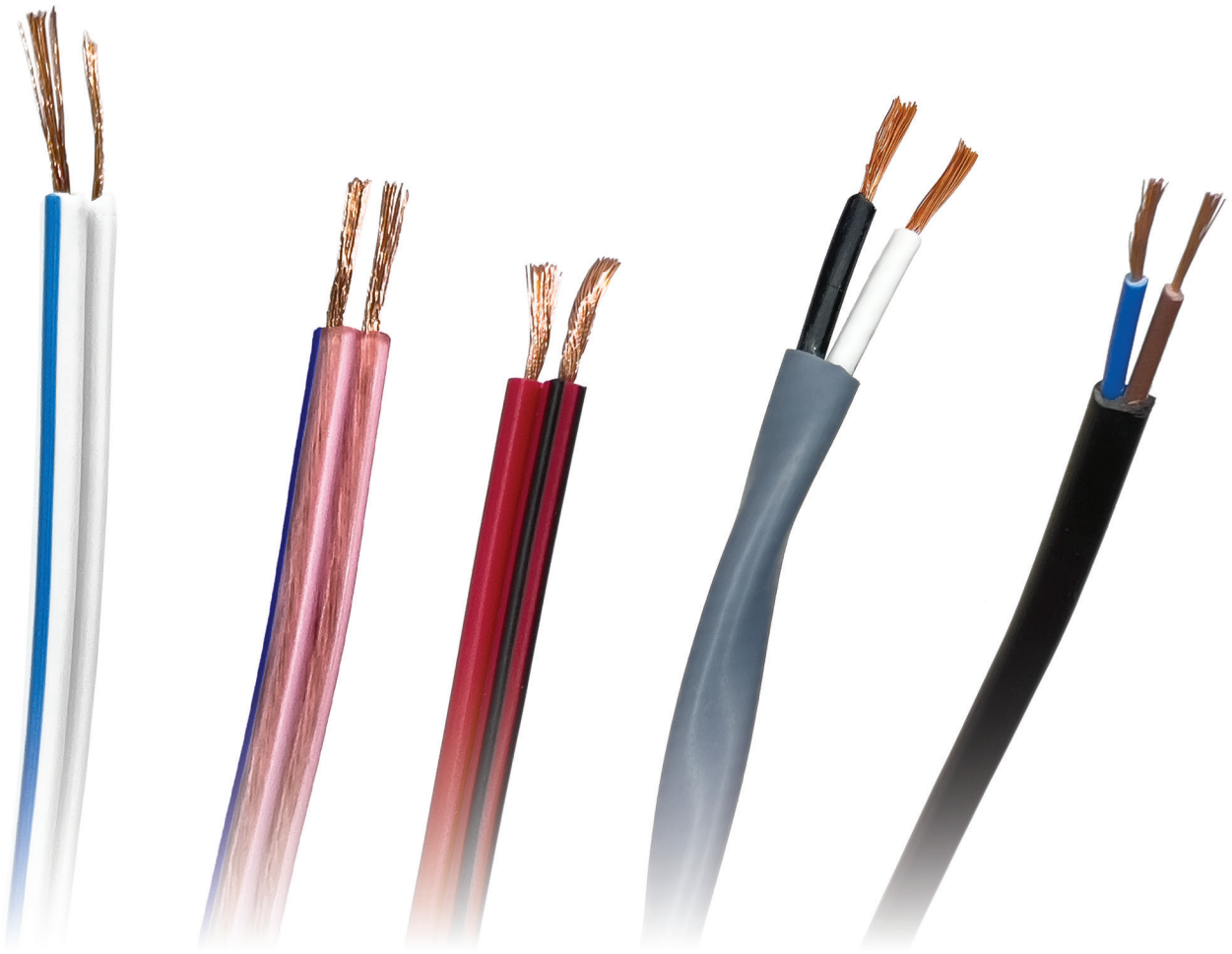
Conductor	:	Plain annealed copper conductor, Class 5
Insulation	:	PVC Compound
Colour of Insulation	:	2 Cores (Brown+Blue), 3 Cores (Brown+Blue+Green/Yellow), 4 Cores (Brown+Blue+Green/Yellow+Black), 5 Cores (Brown+Blue+Green/Yellow+Black+Grey)
Sheath	:	Synthetic Rubber

Flexible Conductor Cables

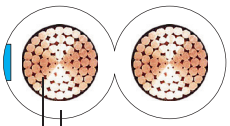
Synthetic Rubber Flexible Cord

Cu / PVC / PVC

Number of Cores	Nominal Cross-Sectional Area	Voltage Rating	Construction Number/Wire Diameter	Thickness of Insulation	Thickness of Sheath	Overall Diameter
No.	Sq.mm	No./mm	No./mm	mm	mm	mm
2	0.75	300/500	24/0.20	0.75	1.40	8.04
2	1.00	300/500	32/0.20	0.75	1.50	8.59
2	1.50	300/500	30/0.25	0.85	1.50	9.54
2	2.50	300/500	50/0.25	0.90	1.60	10.85
2	4.00	300/500	56/0.30	1.00	1.70	12.55
2	6.00	300/500	84/0.30	1.00	1.80	13.90
3	0.75	300/500	24/0.20	0.75	1.40	8.44
3	1.00	300/500	32/0.20	0.75	1.50	9.02
3	1.50	300/500	30/0.25	0.85	1.50	10.04
3	2.50	300/500	50/0.25	0.90	1.60	11.44
3	4.00	300/500	56/0.30	1.00	1.70	13.26
3	6.00	300/500	84/0.30	1.00	1.80	14.69
4	0.75	300/500	24/0.20	0.75	1.40	9.12
4	1.00	300/500	32/0.20	0.75	1.50	9.74
4	1.50	300/500	30/0.25	0.85	1.50	10.89
4	2.50	300/500	50/0.25	0.90	1.60	12.43
4	4.00	300/500	56/0.30	1.00	1.70	14.45
4	6.00	300/500	84/0.30	1.00	1.80	16.03
5	0.75	300/500	24/0.20	0.75	1.40	9.84
5	1.00	300/500	32/0.20	0.75	1.50	10.54
5	1.50	300/500	30/0.25	0.85	1.50	11.83
5	2.50	300/500	50/0.25	0.90	1.60	13.53
5	4.00	300/500	56/0.30	1.00	1.70	15.75
5	6.00	300/500	84/0.30	1.00	1.80	17.51



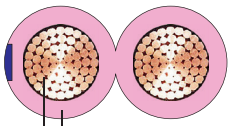
TYPE [A]



PVC Insulation

Copper

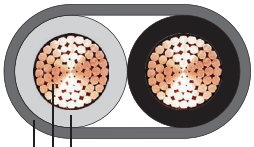
TYPE [B]



PVC Insulation

Copper

TYPE [C]

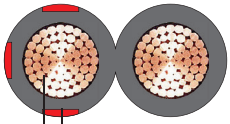


PVC Insulation

Copper

PVC Sheathing

TYPE [D & E]



PVC Insulation

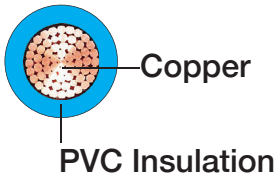
Copper

70°C

Type	Model	Colour of Insulation	Thickness of Insulation Specified Value	Thickness of Sheath Specified Value	Overall Diameter
			mm	mm	mm
A	23/0.14	White Colour with Blue Line	0.75	-	2.30 x 4.70
B	30/0.18	Pink with Blue Line	0.95	-	3.05 x 5.95
C	46/0.20	Grey / Black	0.80	0.90	8.80
D	42/0.15	Grey Colour with 3 Red Line	1.05	-	3.20 x 6.80
E	84/0.15	Blue Colour with 3 Red Line	1.30	-	4.2 x 8.80

Flexible Conductor Cables

PVC Insulated Cable with Flexible Conductor



300 / 500V
70°C, 90°C, 105°C

CONSTRUCTION

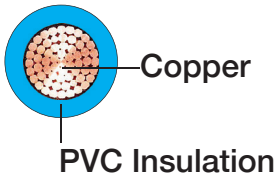
Conductor	:	Finely stranded annealed copper conductor according to IEC 60228, class 5
Insulation	:	PVC Compound
Colour of Insulation	:	Green/ Yellow, Blue, Brown, Black, Grey, Red, Yellow, Green and White

TECHNICAL DATA

Temperature Range	:	-5°C up to 70°C, 90°C, 105°C
Nominal Voltage	:	300/500V
Test Voltage	:	2kV/5min
Behaviour In Fire	:	Flame retardant (self-extinguishing) according to IEC 60332-1-2
Absense of Harmful Subtances	:	RoHS compliant

Nominal Cross-Sectional Area of Conductors	Thickness of Insulation Specified Value	Mean Overall Dimensions
mm²	mm	mm
0.5	0.6	2.1 - 2.5
0.75	0.6	2.2 - 2.7
1	0.6	2.4 - 2.8
1.5	0.7	2.8 - 3.4
2.5	0.8	3.4 - 4.1

UMS® Cables



450 / 500V
70°C

CONSTRUCTION

Conductor	:	Finely stranded annealed copper conductor according to IEC 60228, class 5
Insulation	:	PVC Compound
Colour of Insulation	:	Green/ Yellow, Blue, Brown, Black, Grey, Red, Yellow, Green and White

TECHNICAL DATA

Temperature Range	:	-5°C up to 70°C
Nominal Voltage	:	450/750V
Test Voltage	:	2.5kV/5min
Behaviour In Fire	:	Flame retardant (self-extinguishing) according to IEC 60332-1-2
Absense of Harmful Subtances	:	RoHS compliant

Nominal Cross-Sectional Area of Conductors	Thickness of Insulation Specified Value	Mean Overall Dimensions
mm²	mm	mm
1.5	0.7	2.8 - 3.4
2.5	0.8	2.4 - 4.1
4	0.8	3.6 - 4.8
6	0.8	4.4 - 5.3
10	1.0	5.7 - 6.8
16	1.0	6.7 - 8.1
25	1.2	8.4 - 10.2
35	1.2	9.7 - 11.7
50	1.4	11.5 - 13.9
70	1.4	13.2 - 16.0
95	1.6	15.1 - 18.2
120	1.6	16.7 - 20.2
150	1.8	18.6 - 22.5
185	2.0	20.6 - 24.9
240	2.2	23.5 - 28.4

Flexible Conductor Cables

Electrical Characteristics - PVC Insulated PVC Sheathed Flexible Cord

Nominal Cross Sectional Area	ELECTRICAL CHARACTERISTICS Current Carring Capacity & Mass Supportable This table is based on Table 4F3A of the 17th Edition of IEE Wiring Regulations			VOLTAGE DROP Conductor operating temperature in 60°c This table is based on Table 4F3B of the 17th Edition of IEE Wiring Regulations	
	Current Carring Capacity, Amps		Maximum Mass Supportable by Twin Flexible Cord (Refer to: Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulation)	DC / Single-Phase AC	Three-Phase AC
	Single-Phase AC	Three-Phase AC			
0.50 mm²	3	3	2 kg	93 mV/A/m	80 mV/A/m
0.75 mm²	6	6	3 kg	62 mV/A/m	54 mV/A/m
1.00 mm²	10	10	3 kg	45 mV/A/m	40 mV/A/m
1.25 mm²	13	-	3 kg	37 mV/A/m	-
1.50 mm²	16	16	5 kg	32 mV/A/m	27 mV/A/m
2.50 mm²	25	20	5 kg	19 mV/A/m	16 mV/A/m
4.00 mm²	32	25	5 kg	12 mV/A/m	10 mV/A/m
6.00 mm²	40	32	-	8 mV/A/m	7 mV/A/m

DE-RATING FACTOR

De-Rating Factor for Ambient Temperature 60°c Thermoplastic or Thermosetting Insulated Cords

* The below table is baseed on Table 4F3A of the 17th Edition of IEE Wiring Regulations

Air Temperature	35°c	40°c	45°c	50°c	55°c
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

CURRENT CARRYING CAPACITY & MASS SUPPORTABLE
This table is based on BS 2004

Size	Current Carrying Capacity (Amps)		Voltage Drop per 100 feet		Maximum Mass Supportable by Twin Flexible Cord
No./Inch	Single-Phase AC	Three-Phase AC	Single-Phase AC	Three-Phase AC	lb
23/0.0076	6	6	11	9.4	5.5
40/0.0076	13	13	14	12	10
70/0.0076	18	18	12	10	10
110/0.0076	24	24	9.6	8.3	10
162/0.0076	31	31	9.4	7.3	10

DE-RATING FACTOR

De-Rating Factor for Ambient Temperature 60°c Thermoplastic or Thermosetting Insulated Cords

* The below table is baseed on Table 4F3A of the 17th Edition of IEE Wiring Regulations

Air Temperature	25°c	35°c	40°c	55°c	50°c	55°c	60°c	65°c
De-Rating Factor	1.06	0.94	0.87	0.79	0.71	0.61	0.50	0.35