

RAKCAB



RAS AL KHAIMAH Cables LLC

...quality you can see

RAS AL KHAIMAH CABLES LLC. is established in Ras-Al-Khaimah, U.A.E. The manufacturing facility is located at RAK ECONOMIC ZONE, Al Hamra FZ located 80kms from Dubai. It utilizes advanced cable making equipment and technology to produce specialized range of cables for use in various applications.

The company is formed by leading technocrats having wide experience in manufacturing and marketing of various kinds of cables & related products in the Telecom & Electrical industry. The promoters have a strong presence in the U.A.E.



▶ PRODUCT RANGE

Ras Al Khaimah Cables wide range of products includes:

- **Building Construction**
Wires and Wiring Cables, Indoor Telecom Cables, Networking Cables and solutions
- **Industry**
Control & Instrumentation Cables
- **Infrastructure**
Low Voltage Power Cables, External Telecom Cables

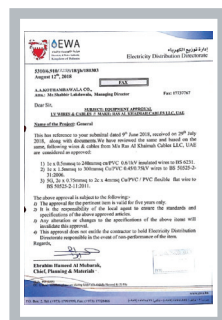


▶ QUALITY STATEMENT

Ras Al Khaimah Cables has an objective of providing high quality products & services to its customers at a right price through competitive approach.

Quality is our competency, which is achieved by our qualified & dedicated staff to ensure product excellence.

All our products comply with the latest British & International standards.



▶ DISTRIBUTION NETWORK

The company is marketing their range of products under the brand name 'RAKCAB' throughout the GCC, Middle East & Africa, and CIS countries and has a wide distribution network in the region. Taking advantage of the proximity to the sea port and developed highway network, we have one of the quickest delivery schedules in the cabling industry for complex and standard cables.

▶ ENVIRONMENTAL POLICIES

We at Ras Al Khaimah Cables maintain a safe & healthy working environment for our employees and ensure compliance to changing business practices in health and safety worldwide. We are committed to environmentally conscious operations & products.



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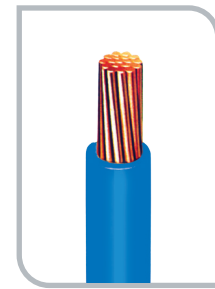
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**ELECTRICAL
WIRES & CABLES**



Single Core PVC Insulated Wires



▶ APPLICATION

These cables are intended for drawing into trunking and conduit and are suitable for use in electrical installations such as power, lighting, appliances and switchgear wiring.

▶ HARMONISED CODE

- 0.75mm² & 1.0mm² solid conductor wire H05V-U / H05V2-U
- 1.5mm² & 2.5mm² solid conductor wire H07V-U / H07V2-U
- 1.5mm² to 120mm² stranded conductor wire H07V-R / H07V2-R

▶ CONSTRUCTION

- Reference** : BSEN: 50525-2-31
Conductor : Solid / stranded plain copper class 1 or 2 to BS6360/IEC60228-1/BSEN:60228
Insulation : PVC Type TI 1 to BSEN:50363-3 / *PVC Type TI 3 HR to BSEN:50363-3

▶ STANDARD COLOURS

Colour : Red, Yellow, Blue, Black, Green, Yellow/Green, Brown, Grey
 Other colours available on request

▶ PACKAGING

- Sizes 0.75mm² to 35mm² in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden reels of 500m and 1000m
- Customised lengths available on request

▶ TECHNICAL DATA

- Max. Operating Temperature** : 70C / 90C / 105C
Rated Voltage : 450/750V (300/500V for 0.75mm² & 1.0mm²)
Standards : BSEN:50525-2-31/H07V-V/R/K

Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
0.75	1	0.98	24.50	0.6	2.40	11	10	SCO0.75
1.00	1	1.13	18.10	0.6	2.60	14	12	SCO1.0
1.50	1	1.38	12.10	0.7	3.20	21	16	SCO1.5
1.50	7	0.53	12.10	0.7	3.30	22	16	SCI.5
2.50	1	1.78	7.410	0.8	3.90	32	21	SCO2.5
2.50	7	0.67	7.410	0.8	4.00	35	21	SC2.5
4.00	7	0.85	4.610	0.8	4.60	50	28	SC4.0
6.00	7	1.04	3.080	0.8	5.20	71	36	SC6.0
10.0	7	1.35	1.830	1.0	6.70	120	50	SCI0.0
16.0	7	1.70	1.150	1.0	7.80	180	68	SCI6.0
25.0	7	2.14	0.727	1.2	9.70	280	89	SC25.0
35.0	7	2.52	0.524	1.2	10.90	380	110	SC35.0
50.0	19	1.83	0.387	1.4	12.80	510	134	SC50.0
70.0	19	2.17	0.268	1.4	14.60	710	171	SC70.0
95.0	19	2.52	0.193	1.6	17.10	970	207	SC95.0
120.0	37	2.04	0.153	1.6	18.80	1200	239	SCI20.0
150.0	37	2.25	0.124	1.8	20.90	1480	262	SCI50.0
185.0	37	2.52	0.0991	2.0	23.30	1900	296	SCI85.0
240.0	61	2.24	0.0754	2.0	26.60	2480	346	SC240.0
300.0	61	2.50	0.0601	2.2	29.60	3100	394	SC300.0
400.0	61	2.85	0.0470	2.6	33.20	3940	467	SC400.0
500.0	91	2.65	0.0366	2.8	36.90	5000	533	SC500.0
630.0	91	2.97	0.0283	2.8	41.10	6350	611	SC630.0

Note:

* 0.75mm² x single core HR PVC insulated 105°C available. Suitable for fluorescent lights wiring.

Bare Copper & Yellow/Green Earthing Conductor



APPLICATION

These cables are intended for use in electrical installations for earthing purpose

CONSTRUCTION

Conductor : Stranded plain copper class 2 to BS6360/IEC60228-1 / BSEN:60228

Insulation : PVC Type TI 1 to BSEN:50363-3 for Yellow/Green earth wire only

PACKAGING

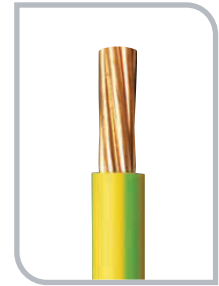
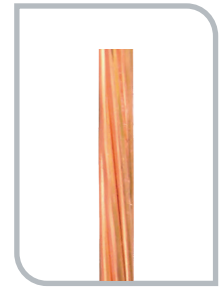
- All sizes can be supplied in non-returnable ply/wooden reels of 500m and 1000m
- Customised lengths available on request

TECHNICAL DATA

Max. Operating Temperature : 70°C

Rated Voltage : 450/750V

Standards : BSEN:50525-2-31



BARE COPPER

Nominal Cross-Sectional Area (mm ²)	Conductor			Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)				
10.0	7	1.35	1.830	4.05	88.90	50	BC10.0
16.0	7	1.70	1.150	5.10	142.24	68	BC16.0
25.0	7	2.14	0.727	6.42	222.25	89	BC25.0
35.0	7	2.52	0.524	7.56	311.15	110	BC35.0
50.0	19	1.83	0.387	9.15	444.50	134	BC50.0
70.0	19	2.17	0.268	10.85	622.30	171	BC70.0
95.0	19	2.52	0.193	12.60	844.55	207	BC95.0
120.0	37	2.04	0.153	14.28	1066.80	239	BC120.0
150.0	37	2.27	0.124	15.89	1333.50	262	BC150.0
185.0	37	2.52	0.0991	17.64	1644.65	296	BC185.0
240.0	61	2.25	0.0754	15.75	2133.60	346	BC240.0
300.0	61	2.50	0.0601	22.50	2667.00	394	BC300.0

YELLOW/GREEN EARTH WIRE

Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
10.0	7	1.35	1.830	1.0	6.70	110	50	SC10.0YG
16.0	7	1.70	1.150	1.0	7.10	171	68	SC16.0YG
25.0	7	2.14	0.727	1.2	9.70	260	89	SC25.0YG
35.0	7	2.52	0.524	1.2	10.90	350	110	SC35.0YG
50.0	19	1.83	0.387	1.4	12.80	480	134	SC50.0YG
70.0	19	2.17	0.268	1.4	14.60	680	171	SC70.0YG
95.0	19	2.52	0.193	1.6	17.10	930	207	SC95.0YG
120.0	37	2.04	0.153	1.6	18.80	1160	239	SC120.0YG
150.0	37	2.25	0.124	1.8	20.90	1430	262	SC150.0YG
185.0	37	2.52	0.0991	2.0	23.30	1740	296	SC185.0YG
240.0	61	2.24	0.0754	2.0	26.60	2270	346	SC240.0YG
300.0	61	2.50	0.0601	2.2	29.60	2840	394	SC300.0YG



Single Core PVC Insulated & Sheathed Wires



▶ APPLICATION

These cables are intended for surface wiring where there is little risk of mechanical damage and are suitable for use in electrical installations such as power and lighting.

▶ CONSTRUCTION

- Reference** : 6181Y
- Conductor** : Solid or stranded plain copper class 1 or 2 to BS6360/IEC60228-1
- Insulation** : PVC Type TI 1 to BS7655
- Sheath** : PVC Type TM 1 or Type 6 to BS7655

▶ STANDARD COLOURS

- Colour** : Red, Yellow, Blue, Black, Green, Yellow/Green, Brown, Grey
- Other colours available on request

▶ PACKAGING

- Sizes 1.5mm² to 4mm² in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden reels of 500m and 1000m

▶ TECHNICAL DATA

- Max. Operating Temperature** : 70°C
- Rated Voltage** : 1.0mm² to 35.0mm² - 300/500V
50.0mm² and above - 600/1000V
- Standards** : 1.0mm² to 35.0mm² - BS6004
50.0mm² and above - BS6346

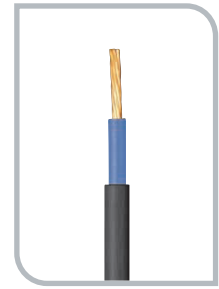
Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)						
1.00	1	1.13	18.10	0.60	0.80	4.50	26	12	SCS1.0
1.50	1	1.38	12.10	0.70	0.80	4.90	35	16	SCS1.5
2.50	1	1.78	7.410	0.80	0.80	5.80	49	21	SCS2.5
4.00	7	0.85	4.610	0.80	0.90	6.80	74	28	SCS4.0
6.00	7	1.04	3.080	0.80	0.90	7.40	97	36	SCS6.0
10.0	7	1.35	1.830	1.00	0.90	8.80	147	50	SCS10.0
16.0	7	1.70	1.150	1.00	1.00	10.50	218	68	SCS16.0
25.0	7	2.14	0.727	1.20	1.10	12.50	327	89	SCS25.0
35.0	7	2.52	0.524	1.20	1.10	13.50	426	110	SCS35.0
50.0	19	1.83	0.387	1.40	1.40	14.75	594	134	SCS50.0
70.0	19	2.17	0.268	1.40	1.40	16.45	793	171	SCS70.0
95.0	19	2.52	0.193	1.60	1.50	18.80	1062	207	SCS95.0
120.0	37	2.04	0.153	1.60	1.50	20.48	1307	239	SCS120.0
150.0	37	2.27	0.124	1.80	1.80	23.09	1646	262	SCS150.0
185.0	37	2.52	0.0991	2.00	2.00	25.64	2031	296	SCS185.0
240.0	37	2.87	0.0754	2.00	2.00	28.09	2563	346	SCS240.0
300.0	61	2.50	0.0601	2.20	2.20	31.03	3195	394	SCS300.0
400.0	61	2.85	0.0470	2.20	2.20	35.00	4156	467	SCS400.0
500.0	91	2.65	0.0366	2.20	2.20	38.50	5114	533	SCS500.0
630.0	91	2.97	0.0283	2.50	2.50	43.50	6459	611	SCS630.0

Single Core Cable: XLPE Insulated, PVC Sheathed (Unarmoured)



▶ APPLICATION

These cables are intended for surface wiring where there is little risk of mechanical damage and for laying into trunking or conduit etc., are suitable for use in electrical installations such as power and lighting.



▶ CONSTRUCTION

Reference : IEC:60502-1
Conductor : Stranded plain copper conductor class 2 to BS6360/IEC60228
Insulation : XLPE
Sheath : PVC Sheathed

▶ STANDARD COLOURS

Cores : Brown or Blue
Sheath : Black. Other colours available on request

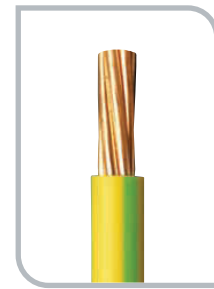
▶ PACKAGING

All sizes can be supplied in non-returnable wooden drums of 500m/1000m

▶ TECHNICAL DATA

Max. Operating Temperature : 90°C
Rated Voltage : 600/1000V
Standards : BS7889, IEC60502-1

Nominal Cross-Section Area (mm ²)	Copper Conductor			Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)						
50.0	19	1.83	0.387	1.00	1.40	14.00	541	134	SCSX50.0
70.0	19	2.17	0.268	1.10	1.40	15.85	749	171	SCSX70.0
95.0	19	2.52	0.193	1.10	1.50	17.80	1000	207	SCSX95.0
120.0	37	2.04	0.153	1.20	1.50	19.80	1241	239	SCSX120.0
150.0	37	2.27	0.124	1.40	1.60	22.00	1523	262	SCSX150.0
185.0	37	2.52	0.0991	1.60	1.60	24.70	1942	296	SCSX185.0
240.0	37	2.87	0.0754	1.70	1.70	27.70	2514	346	SCSX240.0
300.0	61	2.50	0.0601	1.80	1.80	30.60	3125	394	SCSX300.0
400.0	61	2.89	0.0470	2.00	1.90	34.20	3967	467	SCSX400.0
500.0	91	2.64	0.0366	2.20	2.00	38.00	5063	533	SCSX500.0
630.0	91	2.97	0.0283	2.40	2.20	42.90	6491	611	SCSX630.0



▶ APPLICATION

Industrial wiring installations where smoke and acid gas emission would pose a major hazard in the event of fire. These cables are intended for drawing into trunking and conduit and are suitable for use in electrical installations such as power, lighting, appliances, switchgear and controlgear, which are to be used in higher temperature zones.

▶ HARMONISED CODE

- 0.75mm² & 1.0mm² solid conductor wire H05Z-U
- 1.5mm² & 2.5mm² solid conductor wire H07Z-U
- 1.5mm² to 120mm² stranded conductor wire H07Z-R

▶ CONSTRUCTION

- Reference** : BSEN:50525-3-41/BS:7211
- Conductor** : Solid or stranded plain copper class 1 or 2 & 5 to BS6360/BSEN:60228
- Insulation** : Thermosetting, low smoke zero halogen

▶ STANDARD COLOURS

- Colours** : Black, Blue, Red, Yellow, Green/Yellow, Grey
- Other colours available on request.

▶ PACKAGING

- Sizes 0.75mm² to 35mm² in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden reels of 500m and 1000m
- Customised lengths available on request

▶ TECHNICAL DATA

- Max. Operating Temperature** : 90°C
- Rated Voltage** : 450/750V (300/500V for 0.75mm² & 1.0mm²)
- Standards** : BSEN:50525-3-41/BSEN:7211

Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
0.75	1	0.98	24.50	0.6	2.40	11	10	SCLO0.75
1.00	1	1.13	18.10	0.6	2.60	14	12	SCLO1.0
1.50	1	1.38	12.10	0.7	3.20	21	16	SCLO1.5
1.50	7	0.53	12.10	0.7	3.30	22	16	SCL1.5
2.50	1	1.78	7.410	0.8	3.90	32	21	SCLO2.5
2.50	7	0.67	7.410	0.8	4.00	35	21	SCL2.5
4.00	7	0.85	4.610	0.8	4.60	50	28	SCL4.0
6.00	7	1.04	3.080	0.8	5.20	71	36	SCL6.0
10.0	7	1.35	1.830	1.0	6.70	120	50	SCL10.0
16.0	7	1.70	1.150	1.0	7.80	180	68	SCL16.0
25.0	7	2.14	0.727	1.2	9.70	280	89	SCL25.0
35.0	7	2.52	0.524	1.2	10.90	380	110	SCL35.0
50.0	19	1.83	0.387	1.4	12.80	510	134	SCL50.0
70.0	19	2.17	0.268	1.4	14.60	710	171	SCL70.0
95.0	19	2.52	0.193	1.6	17.10	970	207	SCL95.0
120.0	37	2.04	0.153	1.6	18.80	1200	239	SCL120.0
150.0	37	2.25	0.124	1.8	20.90	1480	262	SCL150.0
185.0	37	2.52	0.0991	2.0	23.30	1900	296	SCL185.0
240.0	61	2.24	0.0754	2.0	26.60	2480	346	SCL240.0
300.0	61	2.50	0.0601	2.2	29.60	3100	394	SCL300.0
400.0	61	2.85	0.0470	2.6	33.20	3940	467	SCL400.0
500.0	91	2.65	0.0366	2.8	36.90	5000	533	SCL500.0
630.0	91	2.97	0.0283	2.8	41.10	6350	611	SCL630.0

Heat Resisting PVC Insulated Panel Wires



▶ APPLICATION

These cables are intended for use in fixed installations such as power, lighting, appliances and switchgear & control panel wiring.



▶ HARMONISED CODE

- 0.5mm² to 1.0mm² wire CK
- 1.5mm² & 300mm² stranded conductor wire CK

▶ CONSTRUCTION

- Reference** : BS:6231
- Conductor** : Flexible plain copper class 5 to BSEN:60228/IEC:60228
(Tinned copper conductor available on request)
- Insulation** : PVC Type TI 3 to BSEN:50363-3

▶ STANDARD COLOURS

- Colour** : Red, Yellow, Blue, Black, Green, Yellow/Green
Grey, White, Orange, Brown, Violet, Pink, Turquoise
Other colours available on request

▶ PACKAGING

- Sizes 0.75mm² to 35mm² in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden drums of 500m and 1000m

▶ TECHNICAL DATA

- Max. Operating Temperature** : 90C/105C
- Rated Voltage** : 600/1000V
- Standards** : BS6231

Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Max Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
0.50	16	0.20	39.00	0.8	3.00	13	8	PW0.5
0.75	24	0.20	26.00	0.8	3.10	15	10	PW0.75
1.00	32	0.20	19.50	0.8	3.30	18	12	PW1.0
1.50	30	0.25	13.30	0.8	3.60	24	16	PW1.5
2.50	50	0.25	7.980	0.8	4.10	35	21	PW2.5
4.00	56	0.30	4.950	0.8	4.80	51	28	PW4.0
6.00	84	0.30	3.300	0.8	5.30	70	36	PW6.0
10.0	80	0.40	1.910	1.0	7.20	118	50	PW10.0
16.0	126	0.40	1.210	1.0	9.00	180	68	PW16.0
25.0	196	0.40	0.780	1.2	11.5	280	89	PW25.0
35.0	276	0.40	0.560	1.2	12.50	375	110	PW35.0
50.0	396	0.40	0.390	1.4	15.40	537	134	PW50.0
70.0	360	0.50	0.270	1.4	17.50	728	171	PW70.0
95.0	475	0.50	0.210	1.6	19.20	977	207	PW95.0
120.0	608	0.50	0.160	1.6	21.20	1215	239	PW120.0
150.0	750	0.50	0.124	1.8	23.90	1521	262	PW150.0
185.0	925	0.50	0.0991	2.0	25.90	1870	296	PW185.0
240.0	1221	0.50	0.0754	2.2	28.90	2410	346	PW240.0



Multicore PVC Insulated & Sheathed Flexible Cables

▶ APPLICATION

General purpose indoors or outdoors in dry or damp situations. Portable tools, washing machines, vacuum cleaners, lawn mowers and light domestic applications.

▶ HARMONISED CODE

H05VV-F / H07VV-F

▶ CONSTRUCTION

Reference : BSEN:50525-2-11
Conductor : Flexible plain copper class 5 to BS6360/IEC60228/BSEN:60228
Insulation : PVC Type TI 2 to BSEN:50363-3
Lay-up : Cores are twisted
Sheath : PVC Type TM 2 to BSEN:50363-4-1

▶ COLOUR CODING

Cores : 2-core- Brown, Blue
3-core- Brown, Blue, Green/Yellow
4-core- Brown, Black, Grey, Green/Yellow
5-core- Brown, Black, Grey, Blue, Green/Yellow

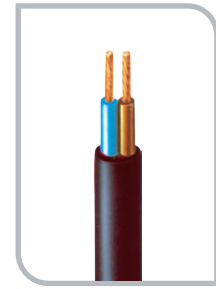
Sheath : White, Black, Grey
Other colours available on request

▶ PACKAGING

All sizes can be supplied in reels/coils of 100yards/100m or non-returnable wooden drums of 500m and 1000m

▶ TECHNICAL DATA

Max. Operating Temperature : 70C
Rated Voltage : 0.5mm² to 4mm² – 300/500V
6.0mm² to 25mm² – 450/750V
Standards : BSEN:50525-2-11 (From 0.5mm² to 4mm² & Generally to BSEN:50525-2-11 above 4mm²)



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Multicore PVC Insulated & Sheathed Flexible Cables



No. of Cores	Conductor				Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Max. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Nominal Cross-Sectional Area (mm ²)	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)						
2	0.5	16	0.20	39.00	0.6	0.8	6.8	52	6	FX2C0.5
2	0.75	24	0.20	26.00	0.6	0.8	7.2	63	9	FX2C0.75
2	1.0	32	0.20	19.50	0.6	0.8	7.5	73	14	FX2C1.0
2	1.5	30	0.25	13.30	0.7	0.8	8.6	95	18	FX2C1.5
2	2.5	50	0.25	7.98	0.8	1.0	10.6	145	24	FX2C2.5
2	4.0	56	0.30	4.95	0.8	1.1	11.8	190	32	FX2C4.0
2	6.0	84	0.30	3.30	0.8	1.2	13.1	256	42	FX2C6.0
2	10.0	80	0.40	1.91	1.0	1.4	16.1	397	55	FX2C10.0
2	16.0	126	0.40	1.21	1.0	1.4	18.5	596	75	FX2C16.0
2	25.0	196	0.40	0.78	1.2	1.4	21.6	956	100	FX2C25.0
3	0.5	16	0.20	39.00	0.6	0.8	7.2	60	6	FX3C0.5
3	0.75	24	0.20	26.00	0.6	0.8	7.5	74	9	FX3C0.75
3	1.0	32	0.20	19.50	0.6	0.8	8.0	86	14	FX3C1.0
3	1.5	30	0.25	13.30	0.7	0.9	9.4	120	18	FX3C1.5
3	2.5	50	0.25	7.98	0.8	1.1	11.4	180	24	FX3C2.5
3	4.0	56	0.30	4.95	0.8	1.2	12.6	236	32	FX3C4.0
3	6.0	84	0.30	3.30	0.8	1.4	14.2	344	42	FX3C6.0
3	10.0	80	0.40	1.91	1.0	1.4	17.1	489	55	FX3C10.0
3	16.0	126	0.40	1.21	1.0	1.4	19.5	724	75	FX3C16.0
3	25.0	196	0.40	0.78	1.2	1.6	23.5	1154	100	FX3C25.0
4	0.5	16	0.20	39.00	0.6	0.8	7.9	72	6	FX4C0.5
4	0.75	24	0.20	26.00	0.6	0.8	8.3	83	9	FX4C0.75
4	1.0	32	0.20	19.50	0.6	0.9	9.0	101	14	FX4C1.0
4	1.5	30	0.25	13.30	0.7	1.0	10.5	141	18	FX4C1.5
4	2.5	50	0.25	7.98	0.8	1.1	12.5	214	24	FX4C2.5
4	4.0	56	0.30	4.95	0.8	1.4	14.0	286	32	FX4C4.0
4	6.0	84	0.30	3.30	0.8	1.4	15.5	411	42	FX4C6.0
4	10.0	80	0.40	1.91	1.0	1.4	18.6	637	55	FX4C10.0
4	16.0	126	0.40	1.21	1.0	1.4	21.5	988	75	FX4C16.0
4	25.0	196	0.40	0.78	1.2	1.6	25.7	1453	100	FX4C25.0
5	0.5	16	0.20	39.00	0.6	0.9	8.6	89	6	FX5C0.5
5	0.75	24	0.20	26.00	0.6	0.9	9.2	113	9	FX5C0.75
5	1.0	32	0.20	19.50	0.6	0.9	9.6	130	14	FX5C1.0
5	1.5	30	0.25	13.30	0.7	1.0	11.2	171	18	FX5C1.5
5	2.5	50	0.25	7.98	0.8	1.2	13.4	265	24	FX5C2.5
5	4.0	56	0.30	4.95	0.8	1.4	15.4	353	32	FX5C4.0
5	6.0	84	0.30	3.30	0.8	1.4	16.5	506	42	FX5C6.0
5	10.0	80	0.40	1.91	1.0	1.4	20.6	815	55	FX5C10.0
5	16.0	126	0.40	1.21	1.0	1.6	24.0	1202	75	FX5C16.0
5	25.0	196	0.40	0.78	1.2	1.6	28.6	1818	100	FX5C25.0



Heat Resisting Multicore PVC Insulated & Sheathed Flexible Cables

▶ APPLICATION

General purpose, heat resisting, indoors or outdoors in dry or damp situations. Portable tools, washing machines, vacuum cleaners, lawn mowers and light domestic applications, especially in higher temperature zones.



▶ HARMONISED CODE

H05V2V2-F / H07V2V2-F

▶ CONSTRUCTION

Reference : BSEN:50525-2-11
Conductor : Flexible plain copper class 5 to BS6360/IEC60228/BSEN:60228
Insulation : PVC Type TI 3 to BSEN:50363-3
Lay-up : Cores are twisted
Sheath : PVC Type TM 3 to BSEN:50363-4-1

▶ COLOUR CODING

Cores : 2-core- Brown, Blue
3-core- Brown, Blue, Green/Yellow
4-core- Brown, Black, Grey, Green/Yellow
5-core- Brown, Black, Grey, Blue, Green/Yellow

Sheath : White, Black, Grey
Other colours available on request

▶ PACKAGING

All sizes can be supplied in reels/coils of 100yards/100m or non-returnable wooden drums of 500m and 1000m

▶ TECHNICAL DATA

Max. Operating Temperature : 90C/105C
Rated Voltage : 0.5mm² to 4mm² – 300/500V
6.0mm² to 25mm² – 450/750V
Standards : BSEN:50525-2-11(0.5MM² to 4mm² & Generally to BSEN:50525-2-11 above 4mm²)

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Heat Resisting Multicore PVC Insulated & Sheathed Flexible Cables

No. of Cores	Conductor				Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Max. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)	Product Code
	Nominal Cross-Sectional Area (mm ²)	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)						
2	0.5	16	0.20	39.00	0.6	0.8	6.8	52	6	FXHR2C0.5
2	0.75	24	0.20	26.00	0.6	0.8	7.2	63	9	FXHR2C0.75
2	1.0	32	0.20	19.50	0.6	0.8	7.5	73	14	FXHR2C1.0
2	1.5	30	0.25	13.30	0.7	0.8	8.6	95	18	FXHR2C1.5
2	2.5	50	0.25	7.98	0.8	1.0	10.6	145	24	FXHR2C2.5
2	4.0	56	0.30	4.95	0.8	1.1	11.8	190	32	FXHR2C4.0
2	6.0	84	0.30	3.30	0.8	1.2	13.1	256	42	FXHR2C6.0
2	10.0	80	0.40	1.91	1.0	1.4	16.1	397	55	FXHR2C10.0
2	16.0	126	0.40	1.21	1.0	1.4	18.5	596	75	FXHR2C16.0
2	25.0	196	0.40	0.78	1.2	1.4	21.6	956	100	FXHR2C25.0
3	0.5	16	0.20	39.00	0.6	0.8	7.2	60	6	FXHR3C0.5
3	0.75	24	0.20	26.00	0.6	0.8	7.5	74	9	FXHR3C0.75
3	1.0	32	0.20	19.50	0.6	0.8	8.0	86	14	FXHR3C1.0
3	1.5	30	0.25	13.30	0.7	0.9	9.4	120	18	FXHR3C1.5
3	2.5	50	0.25	7.98	0.8	1.1	11.4	180	24	FXHR3C2.5
3	4.0	56	0.30	4.95	0.8	1.2	12.6	236	32	FXHR3C4.0
3	6.0	84	0.30	3.30	0.8	1.4	14.2	344	42	FXHR3C6.0
3	10.0	80	0.40	1.91	1.0	1.4	17.1	489	55	FXHR3C10.0
3	16.0	126	0.40	1.21	1.0	1.4	19.5	724	75	FXHR3C16.0
3	25.0	196	0.40	0.78	1.2	1.6	23.5	1154	100	FXHR3C25.0
4	0.5	16	0.20	39.00	0.6	0.8	7.9	72	6	FXHR4C0.5
4	0.75	24	0.20	26.00	0.6	0.8	8.3	83	9	FXHR4C0.75
4	1.0	32	0.20	19.50	0.6	0.9	9.0	101	14	FXHR4C1.0
4	1.5	30	0.25	13.30	0.7	1.0	10.5	141	18	FXHR4C1.5
4	2.5	50	0.25	7.98	0.8	1.1	12.5	214	24	FXHR4C2.5
4	4.0	56	0.30	4.95	0.8	1.4	14.0	286	32	FXHR4C4.0
4	6.0	84	0.30	3.30	0.8	1.4	15.5	411	42	FXHR4C6.0
4	10.0	80	0.40	1.91	1.0	1.4	18.6	637	55	FXHR4C10.0
4	16.0	126	0.40	1.21	1.0	1.4	21.5	988	75	FXHR4C16.0
4	25.0	196	0.40	0.78	1.2	1.6	25.7	1453	100	FXHR4C25.0
5	0.5	16	0.20	39.00	0.6	0.9	8.6	89	6	FXHR5C0.5
5	0.75	24	0.20	26.00	0.6	0.9	9.2	113	9	FXHR5C0.75
5	1.0	32	0.20	19.50	0.6	0.9	9.6	130	14	FXHR5C1.0
5	1.5	30	0.25	13.30	0.7	1.0	11.2	171	18	FXHR5C1.5
5	2.5	50	0.25	7.98	0.8	1.2	13.4	265	24	FXHR5C2.5
5	4.0	56	0.30	4.95	0.8	1.4	15.4	353	32	FXHR5C4.0
5	6.0	84	0.30	3.30	0.8	1.4	16.5	506	42	FXHR5C6.0
5	10.0	80	0.40	1.91	1.0	1.4	20.6	815	55	FXHR5C10.0
5	16.0	126	0.40	1.21	1.0	1.6	24.0	1202	75	FXHR5C16.0
5	25.0	196	0.40	0.78	1.2	1.6	28.6	1818	100	FXHR5C25.0



▶ **APPLICATION**

Suitable for use as signal and control cable for various industrial & engineering applications.

▶ **HARMONISED CODE**

H05VV5-F

▶ **CONSTRUCTION**

- Conductor** : Flexible Plain Copper Class 5 to BS6360/IEC60228/BSEN:60228
- Insulation** : PVC Type TI2 to BSEN:50363-3
- Lay-up** : Cores twisted together, if necessary, in several concentric layers
- Sheath** : PVC Type TM5 to BSEN:50363-4-1



▶ **STANDARD COLOURS**

- Colour Coding** : Core identification by number coding in accordance with BSEN 50334 and earth core coloured Green/Yellow
- Sheath** : Generally Grey, other colours available on request

▶ **PACKAGING**

All sizes can be supplied in non-returnable wooden drums of 500m & 1000m

▶ **TECHNICAL DATA**

- Max. Operating Temperature** : 70°C
- Rated Voltage** : 300/500V
- No. of Cores** : 6 to 60
- Specification** : Generally to BS791917

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PVC INSULATED PVC SHEATHED FLEXIBLE CONTROL CABLE

No. of Cores	Conductor				Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Max. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
	Nominal Cross-Sectional Area (mm ²)	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
6	0.50	16	0.2	39	0.6	0.9	9.6	114	FC6C0.50
6	0.75	24	0.2	26	0.6	0.9	10.10	139	FC6C0.75
6	1.00	32	0.2	19.5	0.6	1.0	10.80	173	FC6C1.00
6	1.50	30	0.25	13.3	0.7	1.1	12.60	240	FC6C1.50
6	2.50	50	0.25	7.98	0.8	1.2	15.10	357	FC6C2.50
7	0.50	16	0.2	39	0.6	0.9	10.40	114	FC7C0.50
7	0.75	24	0.2	26	0.6	1.0	11.30	150	FC7C0.75
7	1.00	32	0.2	19.5	0.6	1.0	11.80	177	FC7C1.00
7	1.50	30	0.25	13.3	0.7	1.2	14.10	257	FC7C1.50
7	2.50	50	0.25	7.98	0.8	1.3	16.80	382	FC7C2.50
12	0.50	16	0.2	39	0.6	1.1	12.90	203	FC12C0.50
12	0.75	24	0.2	26	0.6	1.1	13.70	252	FC12C0.75
12	1.00	32	0.2	19.5	0.6	1.2	14.60	311	FC12C1.00
12	1.50	30	0.25	13.3	0.7	1.3	17.00	432	FC12C1.50
12	2.50	50	0.25	7.98	0.8	1.5	20.60	663	FC12C2.50
18	0.50	16	0.2	39	0.6	1.2	15.30	279	FC18C0.50
18	0.75	24	0.2	26	0.6	1.3	16.40	363	FC18C0.75
18	1.00	32	0.2	19.5	0.6	1.3	17.20	431	FC18C1.00
18	1.50	30	0.25	13.3	0.7	1.5	20.30	618	FC18C1.50
18	2.50	50	0.25	7.98	0.8	1.8	24.80	966	FC18C2.50
27	0.50	16	0.2	39	0.6	1.4	18.60	410	FC27C0.50
27	0.75	24	0.2	26	0.6	1.5	19.90	532	FC27C0.75
27	1.00	32	0.2	19.5	0.6	1.5	21.00	634	FC27C1.00
27	1.50	30	0.25	13.3	0.7	1.8	24.90	924	FC27C1.50
27	2.50	50	0.25	7.98	0.8	2.1	30.20	1430	FC27C2.50
36	0.50	16	0.2	39	0.6	1.5	20.90	516	FC36C0.50
36	0.75	24	0.2	26	0.6	1.6	22.40	679	FC36C0.75
36	1.00	32	0.2	19.5	0.6	1.7	23.80	824	FC36C1.00
36	1.50	30	0.25	13.3	0.7	2.0	28.20	1192	FC36C1.50
36	2.50	50	0.25	7.98	0.8	2.3	34.20	1841	FC36C2.50
48	0.50	16	0.2	39	0.6	1.7	24.30	690	FC48C0.50
48	0.75	24	0.2	26	0.6	1.8	25.90	895	FC48C0.75
48	1.00	32	0.2	19.5	0.6	1.9	27.60	1096	FC48C1.00
48	1.50	30	0.25	13.3	0.7	2.2	32.50	1576	FC48C1.50
48	2.50	50	0.25	7.98	0.8	2.4	39.10	2393	FC48C2.50
60	0.50	16	0.2	39	0.6	1.8	26.60	826	FC60C0.50
60	0.75	24	0.2	26	0.6	2.0	28.70	1098	FC60C0.75
60	1.00	32	0.2	19.5	0.6	2.1	30.50	1343	FC60C1.00
60	1.50	30	0.25	13.3	0.7	2.4	35.80	1923	FC60C1.50
60	2.50	50	0.25	7.98	0.8	2.4	42.60	2848	FC60C2.50



PVC Insulated Twin Flexible Cables

▶ APPLICATION

These cables are intended for fixed protected installation inside appliances and in or on lighting fittings, door bells, speaker etc.

▶ CONSTRUCTION

Reference : IEC60227/BSEN:50525-2-11

Conductor : Flexible plain copper class 5 to BS6360/IEC60228/BSEN60228

Insulation : PVC Type TI 2 to BSEN:50363-3

▶ STANDARD COLOURS

Available in White, Red-Black or transparent PVC. Other colours available on request

▶ PACKAGING

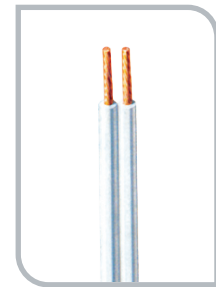
All sizes can be supplied in reels/coils of 100yards/100m/500m/1000m

▶ TECHNICAL DATA

Max. Operating Temperature : 70°C

Rated Voltage : 300V

Standards : IEC60227/BSEN:50525-2-11



Conductor		Max. Resistance at 20°C	Radial Thickness of Insulator	Max. Overall Diameter	Approx. Nett Weight	Product Code
Nominal Cross-Sectional Area	Maximum Diameter of Wire					
(mm ²)	(mm)	(Ω/km)	(mm)	(mm)	(kg/km)	
2 x 0.5	0.20	39.00	0.8	3.0 x 6.0	22	TW2C0.5
2 x 0.75	0.20	26.00	0.8	3.2 x 6.4	28	TW2C0.75



Flat Wiring Cables PVC Insulated & Sheathed

▶ APPLICATION

For domestic and industrial wiring. Suitable for surface wiring where there is little risk of mechanical damage.

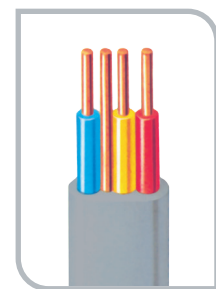
▶ CONSTRUCTION

Reference : BS-6004

Conductor : Solid or stranded plain copper class 1 or 2 to BS6360/IEC60228/BSEN60228

Insulation : PVC Type TI 1 to BSEN:50363-3

Sheath : PVC Type 6



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► COLOUR CODING

Cores : 2-core- Red, Black
3-core- Red, Yellow, White

As per New Harmonised code

2-core- Brown, Blue
3-core- Brown, Black, Grey

Sheath : White, Grey
Other colours available on request

► PACKAGING

All sizes can be supplied in reels/coils of 100yards/100m/500m/1000m

► TECHNICAL DATA

Max. Operating Temperature : 70°C
Rated Voltage : 300/500V
Standards : BS6004

Reference Number	Conductor			Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Earth Continuity Conductor Cross section (mm ²)	Product Code
	Nominal Cross-Sectional Area (mm ²)	Number of Strands	Diameter of Strand (mm)						
6192Y	1.0	1	1.13	0.6	0.9	4.7x7.4	53		FLTO2C1.0
TWIN	1.5	1	1.38	0.7	0.9	5.4x8.4	70		FLTO2C1.5
FLAT	2.5	1	1.78	0.8	1.0	6.2x9.8	105		FLTO2C2.5
	4.0	7	0.85	0.8	1.0	7.2x11.5	150		FLT2C4.0
	6.0	7	1.04	0.8	1.1	8.0x13.0	205		FLT2C6.0
	10.0	7	1.35	1.0	1.2	9.6x16.0	320		FLT2C10.0
	16.0	7	1.70	1.0	1.3	11.0x18.5	470		FLT2C16.0
6193Y	1.0	1	1.13	0.6	0.9	4.7x9.8	76		FLTO3C1.0
THREE	1.5	1	1.38	0.7	0.9	5.4x11.5	100		FLTO3C1.5
CORE	2.5	1	1.78	0.8	1.0	6.2x13.5	150		FLTO3C2.5
FLAT	4.0	7	0.85	0.8	1.0	7.2x16.5	225		FLT3C4.0
	6.0	7	1.04	0.8	1.1	8.0x18.0	300		FLT3C6.0
	10.0	7	1.35	1.0	1.2	9.6x22.5	480		FLT3C10.0
	16.0	7	1.70	1.0	1.3	11.0x26.5	695		FLT3C16.0
6242Y	1.0	1	1.13	0.6	0.9	4.7x8.6	68	1.0	FLTO2CE1.0
TWIN	1.5	1	1.38	0.7	0.9	5.4x9.6	85	1.0	FLTO2CE1.5
FLAT	2.5	1	1.78	0.8	1.0	6.2x11.5	120	1.5	FLTO2CE2.5
WITH	4.0	7	0.85	0.8	1.0	7.2x13.0	175	1.5	FLT2CE4.0
EARTH	6.0	7	1.04	0.8	1.1	8.0x15.0	240	2.5	FLT2CE6.0
	10.0	7	1.35	1.0	1.2	9.6x19.0	390	4.0	FLT2CE10.0
	16.0	7	1.70	1.0	1.3	11.0x22.5	560	6.0	FLT2CE16.0
6243Y	1.0	1	1.13	0.6	0.9	4.7x11.0	91	1.0	FLTO3CE1.0
THREE	1.5	1	1.38	0.7	0.9	5.4x12.5	115	1.0	FLTO3CE1.5
CORE	2.5	1	1.78	0.8	1.0	6.2x14.5	170	1.5	FLTO3CE2.5
FLAT	4.0	7	0.85	0.8	1.0	7.2x18.0	250	1.5	FLT3CE4.0
WITH	6.0	7	1.04	0.8	1.1	8.0x20.0	340	2.5	FLT3CE6.0
EARTH	10.0	7	1.35	1.0	1.2	9.6x25.5	540	4.0	FLT3CE10.0
	16.0	7	1.70	1.0	1.3	11.0x29.5	790	6.0	FLT3CE16.0



CU / XLPE / SWA / PVC Low Voltage Power Cables

▶ APPLICATION

Industrial wiring and mains distribution. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air.

▶ CONSTRUCTION

Conductor : Single, Two, Three, Four and Five core cables. Stranded plain copper conductors

Insulation : XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured (Aluminium wires for single cores) and PVC sheathed.



▶ STANDARD COLOURS

Cores : Single-core- Red or Black
2-core- Red and Black
3-core- Red, Yellow and Blue
4-core- Red, Yellow, Blue and Black
5-core- Red, Yellow, Blue, Black and Green/Yellow

As per New Harmonised Code

Single-core- Brown or Blue
2-core- Brown and Blue
3-core- Brown, Black and Grey
4-core- Brown, Black Grey and Blue
5-core- Brown, Black, Grey, Green/Yellow and Blue

Sheath Colours : Black. Other colours available on request

▶ MINIMUM BENDING RADIUS

6D circular conductors, 8D shaped conductors

▶ TECHNICAL DATA

Max. Operating Temperature : 90°C

Rated Voltage : 600/1000V

Standards : BS5467

Single Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
50.0	1.0	0.8	0.90	1.5	17.5	695	PC1C50
70.0	1.1	0.8	1.25	1.5	20.2	960	PC1C70
95.0	1.1	0.8	1.25	1.6	22.3	1240	PC1C95
120.0	1.2	0.8	1.25	1.6	24.2	1495	PC1C120
150.0	1.4	1.0	1.60	1.7	27.4	1908	PC1C150
185.0	1.6	1.0	1.60	1.8	30.0	2320	PC1C185
240.0	1.7	1.0	1.60	1.8	32.8	2910	PC1C240
300.0	1.8	1.0	1.60	1.9	35.6	3550	PC1C300
400.0	2.0	1.2	2.00	2.0	40.5	4580	PC1C400
500.0	2.2	1.2	2.00	2.1	44.2	5600	PC1C500
630.0	2.4	1.2	2.00	2.2	48.8	7070	PC1C630
800.0	2.6	1.4	2.50	2.4	55.4	10660	PC1C800
1000.0	2.8	1.4	2.50	2.5	60.6	13140	PC1C1000

Note:
Circular or compacted circular stranded conductor (Class 2)

contd... ▶▶



Two Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	12.1	315	PC2C1.5
2.5*	0.7	0.8	0.90	1.4	13.6	380	PC2C2.5
4.0*	0.7	0.8	0.90	1.4	14.7	460	PC2C4.0
6.0*	0.7	0.8	0.90	1.4	15.9	550	PC2C6.0
10.0*	0.7	0.8	0.90	1.5	18.0	795	PC2C10
16.0*	0.7	0.8	1.25	1.5	20.4	860	PC2C16
25.0~	0.9	0.8	1.25	1.6	20.4	1000	PC2C25
35.0~	0.9	1.0	1.60	1.7	23.3	1420	PC2C35
50.0~	1.0	1.0	1.60	1.8	25.8	1760	PC2C50
70.0~	1.1	1.0	1.60	1.9	29.0	2270	PC2C70
95.0~	1.1	1.2	2.00	2.0	33.1	3120	PC2C95
120.0~	1.2	1.2	2.00	2.1	36.1	3730	PC2C120
150.0~	1.4	1.2	2.00	2.2	39.3	4430	PC2C150
185.0~	1.6	1.4	2.50	2.4	44.7	5700	PC2C185
240.0~	1.7	1.4	2.50	2.5	49.0	7060	PC2C240
300.0~	1.8	1.6	2.50	2.6	53.5	8490	PC2C300
400.0~	2.0	1.6	2.50	2.8	59.0	10470	PC2C400

Note:

* Circular or compacted circular stranded conductor (Class 2)

~ Shaped standard conductor (Class 2)

Three Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	12.6	330	PC3C1.5
2.5*	0.7	0.8	0.90	1.4	14.1	415	PC3C2.5
4.0*	0.7	0.8	0.90	1.4	15.3	505	PC3C4.0
6.0*	0.7	0.8	0.90	1.4	16.6	615	PC3C6.0
10.0*	0.7	0.8	1.25	1.5	19.5	870	PC3C10
16.0*	0.7	0.8	1.25	1.6	21.6	1055	PC3C16
25.0~	0.9	1.0	1.60	1.7	23.6	1485	PC3C25
35.0~	0.9	1.0	1.60	1.8	25.7	1855	PC3C35
50.0~	1.0	1.0	1.60	1.8	28.5	2305	PC3C50
70.0~	1.1	1.0	1.60	1.9	32.2	3050	PC3C70
95.0~	1.1	1.2	2.00	2.1	37.0	4190	PC3C95
120.0~	1.2	1.2	2.00	2.2	40.4	5050	PC3C120
150.0~	1.4	1.4	2.50	2.3	45.5	6450	PC3C150
185.0~	1.6	1.4	2.50	2.4	49.8	7790	PC3C185
240.0~	1.7	1.4	2.50	2.6	55.1	9680	PC3C240
300.0~	1.8	1.6	2.50	2.7	60.2	11780	PC3C300
400.0~	2.0	1.6	2.50	2.9	66.6	14600	PC3C400

Note:

* Circular or compacted circular stranded conductor (Class 2)

~ Shaped standard conductor (Class 2)

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Four Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	13.3	345	PC4C1.5
2.5*	0.7	0.8	0.90	1.4	15.0	440	PC4C2.5
4.0*	0.7	0.8	0.90	1.4	16.4	540	PC4C4.0
6.0*	0.7	0.8	1.25	1.5	18.7	780	PC4C6.0
10.0*	0.7	0.8	1.25	1.5	21.1	1125	PC4C10
16.0*	0.7	0.8	1.25	1.6	23.4	1300	PC4C16
25.0~	0.9	1.0	1.60	1.7	26.1	1860	PC4C25
35.0~	0.9	1.0	1.60	1.8	28.6	2335	PC4C35
50.0~	1.0	1.0	1.60	1.9	32.0	2960	PC4C50
70.0~	1.1	1.2	2.00	2.1	37.7	4200	PC4C70
95.0~	1.1	1.2	2.00	2.2	41.7	5400	PC4C95
120.0~	1.2	1.4	2.50	2.3	47.1	6990	PC4C120
150.0~	1.4	1.4	2.50	2.4	51.4	8300	PC4C150
185.0~	1.6	1.4	2.50	2.6	56.6	10076	PC4C185
240.0~	1.7	1.6	2.50	2.7	63.0	12660	PC4C240
300.0~	1.8	1.6	2.50	2.9	68.8	15350	PC4C300
400.0~	2.0	1.8	3.15	3.2	78.1	19880	PC4C400

Note:

* Circular or compacted circular stranded conductor (Class 2)

~ Shaped standard conductor (Class 2)

Five Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5	0.6	0.8	0.90	1.4	14.3	430	PC5C1.5
2.5	0.7	0.8	0.90	1.4	16.1	545	PC5C2.5
4.0	0.7	0.8	0.90	1.5	17.8	680	PC5C4.0
6.0	0.7	0.8	1.25	1.5	20.0	840	PC5C6.0
10.0	0.7	0.8	1.25	1.6	22.9	1105	PC5C10
16.0	0.7	1.0	1.60	1.7	26.6	1450	PC5C16
25.0	0.9	1.0	1.60	1.8	31.5	2245	PC5C25
35.0	0.9	1.0	1.60	1.9	34.8	2840	PC5C35
50.0	1.0	1.2	2.00	2.0	40.4	3895	PC5C50
70.0	1.1	1.2	2.00	2.2	46.3	5145	PC5C70

Note:

Circular or compacted circular stranded conductor (Class 2)

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Single Core Copper, XLPE Insulated Armoured/Unarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air Single Core in Trefoil		In Ground Single Core in Trefoil Armoured	In Duct (A) Single Core in Trefoil Armoured	Voltage Drop of 3 Single core cables Trefoil (V/A/km)
	Unarmoured	Armoured			
1.5	22	22	28	26	26.7
2.5	30	30	38	35	16.4
4.0	39	39	49	46	10.2
6.0	49	49	62	59	6.80
10	67	67	82	78	4.00
16	92	92	108	101	2.50
25	123	123	139	134	1.62
35	146	146	165	154	1.17
50	174	180	199	199	0.88
70	222	230	244	239	0.62
95	275	282	292	281	0.46
120	321	328	332	315	0.38
150	371	377	371	341	0.32
185	430	433	417	376	0.28
240	513	510	480	421	0.23
300	594	581	536	459	0.21
400	692	664	594	488	0.20
500	801	751	658	529	0.18
630	925	846	723	571	0.17
800	1051	919	764	595	0.16
1000	1172	997	810	632	0.15

Operating conditions

Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W

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Two Core Copper, XLPE Insulated Armoured/Umarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air		In Ground Armoured	In Duct (A) Armoured	Voltage Drop (V/A/km)
	Unarmoured	Armoured			
1.5	22	24	33	27	30.9
2.5	30	32	42	35	18.9
4.0	39	43	56	46	11.8
6.0	50	55	70	58	7.90
10	67	74	94	77	4.70
16	97	98	121	99	2.90
25	122	128	157	127	1.90
35	151	158	188	153	1.35
50	183	190	223	181	1.00
70	232	239	273	224	0.70
95	287	295	328	269	0.52
120	335	341	372	307	0.42
150	383	289	417	345	0.35
185	444	449	470	391	0.90
240	529	530	544	453	0.24
300	611	605	609	509	0.21
400	711	696	687	575	0.20

Operating conditions
 Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W

Three & Four Core Copper, XLPE Insulated Armoured/Umarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air		In Ground Armoured	In Duct (A) Armoured	Voltage Drop (V/A/km)
	Unarmoured	Armoured			
1.5	19	20	28	22	26.7
2.5	27	27	36	29	16.4
4.0	34	37	47	39	10.2
6.0	44	46	59	48	6.80
10	58	64	79	65	4.00
16	83	83	102	83	2.50
25	105	109	131	107	1.65
35	129	134	157	128	1.15
50	157	163	187	152	0.87
70	200	205	229	187	0.60
95	246	253	274	226	0.45
120	288	293	312	258	0.37
150	330	335	349	291	0.30
185	381	386	394	329	0.26
240	454	456	455	380	0.21
300	524	519	509	427	0.19
400	608	597	574	490	0.17

Operating conditions
 Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W



▶ **APPLICATION**

Industrial wiring for remote control and telemetry circuits etc. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air.

▶ **CONSTRUCTION**

Multi-core cables. Stranded plain copper conductors, XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured and PVC sheathed.

▶ **STANDARD COLOURS**

Cores : White with Black numerals
Sheath Colours : Black. Other colours available on request

▶ **MINIMUM BENDING RADIUS**

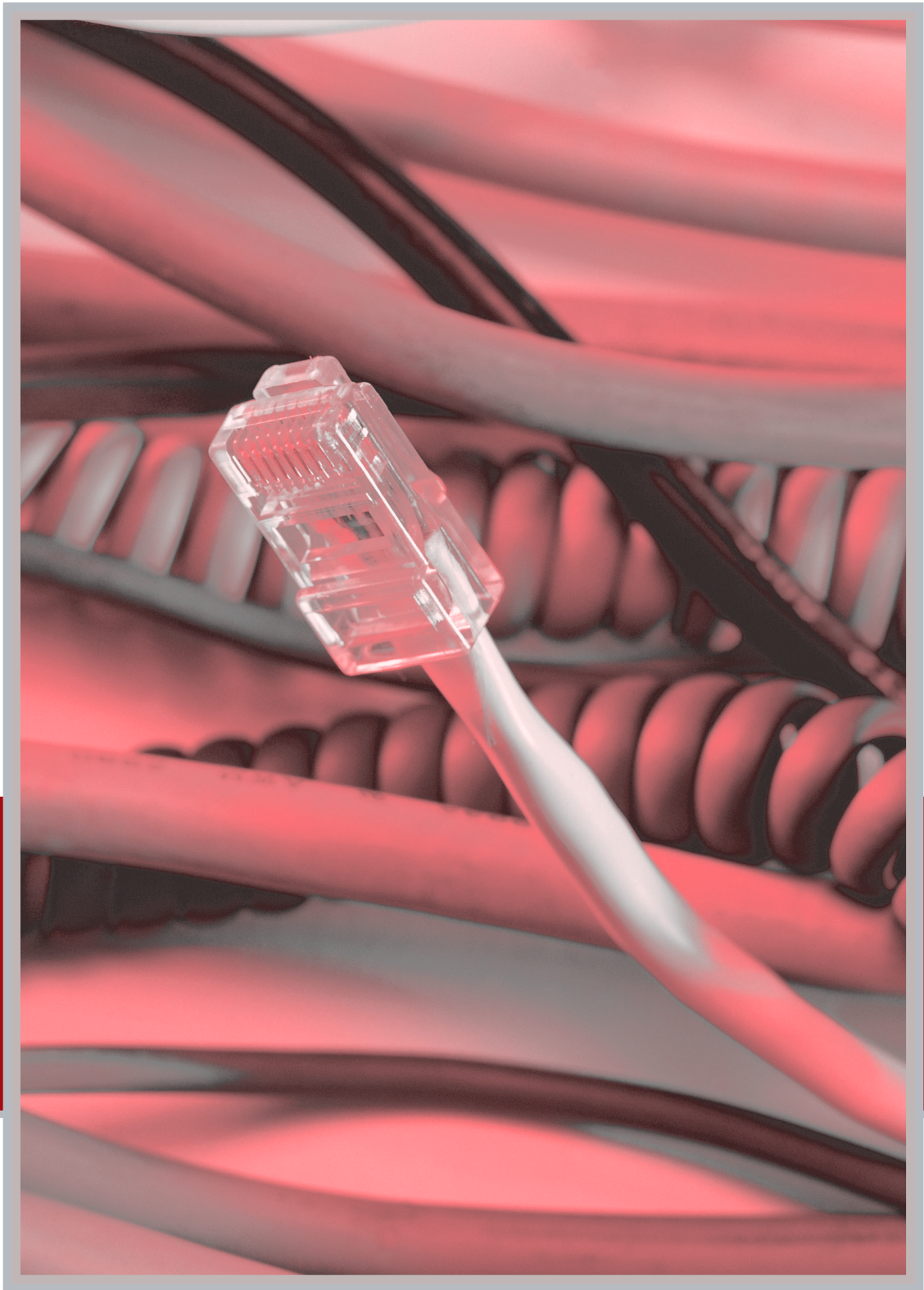
6D circular conductors

▶ **TECHNICAL DATA**

Max. Operating Temperature : 90°C
Rated Voltage : 600/1000V
Standards : BS5467



Number of Cores	Nominal Area of Conductor (mm ²)	Approx. Dia. under Armour (mm)	Approx. Dia. over Armour (mm)	Approx. Overall Diameter (mm)	Approx Net Weight (kg/km)	Product Code
7	1.5	10.2	12.1	15.2	470	AX7C1.5
	2.5	12.3	14.1	17.1	600	AX7C2.5
	4.0	14.0	16.5	19.7	890	AX7C4.0
12	1.5	13.7	16.2	19.4	780	AX12C1.5
	2.5	16.3	18.8	22.4	1000	AX12C2.5
	4.0	19.1	22.2	25.7	1410	AX12C4.0
19	1.5	16.2	18.7	22.2	1000	AX19C1.5
	2.5	19.9	23.1	26.6	1540	AX19C2.5
	4.0	22.5	25.7	29.3	1830	AX19C4.0
27	1.5	20.0	23.2	26.7	1500	AX27C1.5
	2.5	24.0	27.2	30.7	1950	AX27C2.5
	4.0	27.5	30.7	34.4	2500	AX27C4.0
37	1.5	22.3	25.5	29.0	1800	AX37C1.5
	2.5	26.9	30.1	33.8	2350	AX37C2.5
	4.0	31.0	35.0	39.2	3100	AX37C4.0
48	1.5	25.4	28.6	32.7	2050	AX48C1.5
	2.5	31.0	35.0	39.3	3100	AX48C2.5
	4.0	35.3	39.3	44.1	4100	AX48C4.0



TELECOMMUNICATION
DATA & INSTRUMENTATION
CABLES



APPLICATION

Internal telephone cables generally conform to British & International Telecommunications authorities specifications.

Type 1308 cable has each individual core of a different bi-colour for easy identification. In the color coding tables the first color is that of the PVC insulation and the second is the stripe color.

These cables are suitable for cross connecting individual items of switchboard equipments, and are used where an external telephone cable is to be connected to many internal distribution points - in a large block of flats or in a small commercial premises not equipped with private exchanges. These cables are ideal for direct connection on to terminal blocks.

CONSTRUCTION

Cable Type : Cu/PVC/PVC

Conductor : Solid plain/tinned copper wire to BS4109.

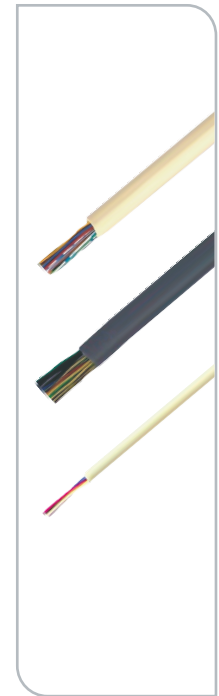
Insulation : PVC to BS6746.

Lay-up : In full units of 16,20,30 pairs sub-units of 8,10,15 pairs - each unit identified by a different colored lapping tape; units are laid up together to form a compact circular cable

Wrapping : Polyester clear tape.

Sheath : PVC (Cream, white, grey or black) to BS6746. Fitted with a nylon ripcord for easy stripping.

No. of Pairs	No. of Cores	A-Wire Insul.		B-Wire Insul.		Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Core Dia. (mm)	Sheath R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Cap. Unbalance (PF)-500M	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	WHI	BLU	BLU	WHI											1
2	4	WHI	ORG	ORG	WHI	0.2	0.2	0.9	0.6	3.5	97.8	50	500	18	TI5002	2
3	6	WHI	GRN	GRN	WHI	0.2	0.2	0.9	0.7	4.3	97.8	50	500	27	TI5003	3
4	8	WHI	BRN	BRN	WHI	0.2	0.2	0.9	0.7	4.7	97.8	50	500	33	TI5004	4
5	10	WHI	GRY	GRY	WHI	0.2	0.2	0.9	0.7	5.1	97.8	50	500	39	TI5005	5
6	12	RED	BLU	BLU	RED	0.2	0.2	0.9	0.7	5.5	97.8	50	500	45	TI5006	6
7	14	RED	ORG	ORG	RED											7
8	16	RED	GRN	GRN	RED	0.2	0.2	0.9	0.7	6.1	97.8	50	500	57	TI5008	8
9	18	RED	BRN	BRN	RED											9
10	20	RED	GRY	GRY	RED	0.2	0.2	0.9	0.7	6.6	97.8	50	500	69	TI5010	10
11	22	BLK	BLU	BLU	BLK											11
12	24	BLK	ORG	ORG	BLK	0.2	0.2	0.9	0.8	7.3	97.8	50	500	83	TI5012	12
13	26	BLK	GRN	GRN	BLK											13
14	28	BLK	BRN	BRN	BLK											14
15	30	BLK	GRY	GRY	BLK	0.2	0.2	0.9	0.8	8.0	97.8	50	500	100	TI5015	15
16	32	YEL	BLU	BLU	YEL											16
17	34	YEL	ORG	ORG	YEL											17
18	36	YEL	GRN	GRN	YEL											18
19	38	YEL	BRN	BRN	YEL											19
20	40	YEL	GRY	GRY	YEL	0.2	0.2	0.9	0.9	9.2	97.8	50	500	133	TI5020	20
21	42	VIO	BLU	BLU	VIO											21
22	44	VIO	ORG	ORG	VIO											22
23	46	VIO	GRN	GRN	VIO											23
24	48	VIO	BRN	BRN	VIO											24
25	50	VIO	GRY	GRY	VIO	0.2	0.2	0.9	0.9	10.1	97.8	50	500	162	TI5025	25
26	52	PNK	BLU	BLU	PNK											26
27	54	PNK	ORG	ORG	PNK											27
28	56	PNK	GRN	GRN	PNK											28
29	58	PNK	BRN	BRN	PNK											29
30	60	PNK	GRY	GRY	PNK	0.2	0.2	0.9	1.0	11.1	97.8	50	500	194	TI5030	30
Unit construction cables (Laid up in 10 and 20 pair units as per above color coding.)																
40	80					0.2	0.2	0.9	1.0	12.5	97.8	50	500	249	TI5040	40
50	100					0.2	0.2	0.9	1.2	14.1	97.8	50	500	316	TI5050	50
100	200					0.2	0.2	0.9	1.6	19.7	97.8	50	500	622	TI5100	100
200	400					0.2	0.2	0.9	1.8	27.0	97.8	50	500	1181	TI5200	200





► **APPLICATION**

External grade cable for installation in local network distribution systems. These are manufactured generally to CWI128/CWI179.

► **CONSTRUCTION**

Conductor : Plain annealed copper wire to BS4109

Insulation : Solid or cellular Polyethylene to BS6234

Lay-up : Cores twisted into pairs and cross stranded to form units/sub units. These are laid up to form compact circular cable

Filling : Cable filled with Petroleum-Jelly

Wrapping : Cable lapped longitudinally with polyester or paper tape

Screen : Cable screened with laminated aluminium/polyester tape

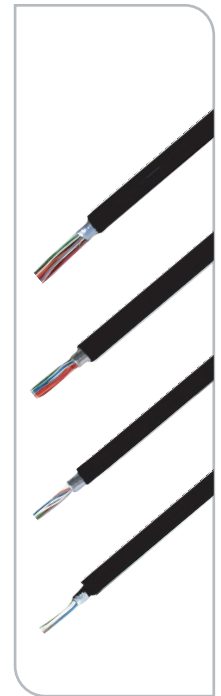
Sheath : Polyethylene to BS6234 (Black)

Options : Without Petroleum-Jelly filling. Without screen

No. of Pairs	No. of Cores	A-Wire Insul.	B-Wire Insul.	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Core Dia. (mm)	Sheath R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Cap. Unbalance (PF)-500M	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	WHI	BLU											1
2	4	WHI	ORG											2
3	6	WHI	GRN											3
4	8	WHI	BRN											4
5	10	WHI	GRY	0.2	0.2	0.9	1.1	12.5	91	1500	275	62	TE5005	5
6	12	RED	BLU											6
7	14	RED	ORG											7
8	16	RED	GRN											8
9	18	RED	BRN											9
10	20	RED	GRY	0.2	0.2	0.9	1.1	14.5	91	1500	275	103	TE5010	10
Cables over 10 pair are constructed with 10 pair units with above color coding														
20	40			0.2	0.2	0.9	1.2	13.5	91	1500	275	168	TE5020	20
30	60			0.2	0.2	0.9	1.2	15.5	91	1500	275	230	TE5030	30
50	100			0.2	0.2	0.9	1.3	18.0	91	1500	275	333	TE5050	50
100	200			0.2	0.2	0.9	1.4	23.5	91	1500	275	591	TE5100	100

Each unit is lapped with colored tape for identification as follows

Unit 1	BLU
Unit 2	ORG
Unit 3	GRN
Unit 4	BRN
Unit 5	GRY
Unit 6	WHI
Unit 7	RED
Unit 8	BLK
Unit 9	YEL
Unit 10	VIO





► **APPLICATION**

External grade cable for installation in local network distribution systems. These are manufactured generally to CW1128/CW1179.

► **CONSTRUCTION**

Conductor : Plain annealed copper wire to BS4109

Insulation : Solid or cellular Polyethylene to BS6234

Lay-up : Cores twisted into pairs and cross stranded to form units/sub units. These are laid up to form compact circular cable

Filling : Cable filled with Petroleum-Jelly

Wrapping : Cable lapped longitudinally with polyester or paper tape

Screen : Cable screened with laminated aluminium/polyester tape

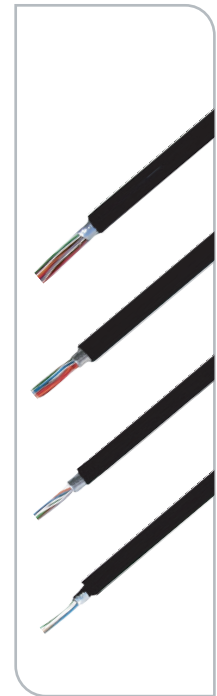
Sheath : Polyethylene to BS6234 (Black)

Options : Without Petroleum-Jelly filling. Without screen

No. of Pairs	No. of Cores	A-Wire Insul.	B-Wire Insul.	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Core Dia. (mm)	Sheath R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Cap. Unbalance (PF)-500M	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	WHI	BLU											1
2	4	WHI	ORG	0.31	0.25	1.15	1.1	9.5	60	1500	800	41	TE6002	2
3	6	WHI	GRN											3
4	8	WHI	BRN											4
5	10	WHI	GRY	0.31	0.25	1.15	1.1	11.0	60	1500	275	90	TE6005	5
6	12	RED	BLU											6
7	14	RED	ORG											7
8	16	RED	GRN											8
9	18	RED	BRN											9
10	20	RED	GRY	0.31	0.25	1.15	1.2	13.0	60	1500	275	145	TE6010	10
Cables over 10 pair are constructed with 10 pair units with above color coding														
20	40			0.31	0.25	1.15	1.2	15.5	60	1500	275	242	TE6020	20
30	60			0.31	0.25	1.15	1.3	18.0	60	1500	275	310	TE6030	30
50	100			0.31	0.25	1.15	1.4	22.0	60	1500	275	489	TE6050	50
100	200			0.31	0.25	1.15	1.6	27.5	60	1500	275	850	TE6100	100

Each unit is lapped with colored tape for identification as follows

Unit 1	BLU
Unit 2	ORG
Unit 3	GRN
Unit 4	BRN
Unit 5	GRY
Unit 6	WHI
Unit 7	RED
Unit 8	BLK
Unit 9	YEL
Unit 10	VIO





► **APPLICATION**

External grade cable for installation in local network distribution systems. These are manufactured generally to CWI128/CWI179.

► **CONSTRUCTION**

Conductor : Plain annealed copper wire to BS4109

Insulation : Solid or cellular Polyethylene to BS6234

Lay-up : Cores twisted into pairs and cross stranded to form units/sub units. These are laid up to form compact circular cable

Filling : Cable filled with Petroleum-Jelly

Wrapping : Cable lapped longitudinally with polyester or paper tape

Screen : Cable screened with laminated aluminium/polyester tape

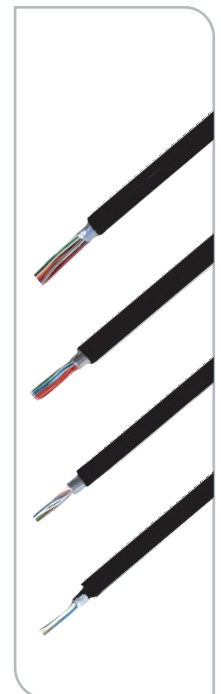
Sheath : Polyethylene to BS6234 (Black)

Options : Without Petroleum-Jelly filling. Without screen

No. of Pairs	No. of Cores	A-Wire Insul.	B-Wire Insul.	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Core Dia. (mm)	Sheath R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Cap. Unbalance (PF)-500M	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	WHI	BLU											1
2	4	WHI	ORG	0.64	0.3	1.5	1.1	10.5	30	1500	800	60	TE9002	2
3	6	WHI	GRN											3
4	8	WHI	BRN											4
5	10	WHI	GRY	0.64	0.3	1.5	1.2	13.0	30	1500	275	121	TE9005	5
6	12	RED	BLU											6
7	14	RED	ORG											7
8	16	RED	GRN											8
9	18	RED	BRN											9
10	20	RED	GRY	0.64	0.3	1.5	1.2	15.5	30	1500	275	231	TE9010	10
Cables over 10 pair are constructed with 10 pair units with above color coding														
20	40			0.64	0.3	1.5	1.3	19.5	30	1500	275	417	TE9020	20
30	60			0.64	0.3	1.5	1.5	24.0	30	1500	275	563	TE9030	30
50	100			0.64	0.3	1.5	1.5	28.0	30	1500	275	896	TE9050	50
100	200			0.64	0.3	1.5	1.7	36	30	1500	275	1650	TE9100	100

Each unit is lapped with colored tape for identification as follows

Unit 1	BLU
Unit 2	ORG
Unit 3	GRN
Unit 4	BRN
Unit 5	GRY
Unit 6	WHI
Unit 7	RED
Unit 8	BLK
Unit 9	YEL
Unit 10	VIO





Direct Burial Armoured Cables

▶ APPLICATION

External grade cable for installation in local network distribution systems. These are manufactured generally to CW1128/CW1179.

▶ CONSTRUCTION

The construction of the external telephone cable shall be to the relevant BT specification and shall have:

Armour : Suitable number of galvanised mild steel wires, to comply with BS1442, applied directly over the sheath

Oversheath : The wire armoured cable shall be oversheathed with an extrusion of Polyethylene (Black).
If specially ordered the oversheath can be of PVC compound.

Specified Cable Diameter (Maximum) Inclusive Range		Diameter of Armour Wire Nominal	Thickness of Oversheath Minimum	Increase in Cable Dia. Due To Armour & Oversheath Maximum
(mm)	(mm)	(mm)	(mm)	(mm)
-	12	0.90	0.9	5.2
12.1	15	1.25	0.9	5.9
15.1	20	1.60	1.0	6.8
20.1	25	1.60	1.1	7.0
25.1	30	2.00	1.2	8.0
30.1	35	2.00	1.3	8.2
35.1	40	2.00	1.4	8.4
40.1	45	2.50	1.5	9.6
45.1	50	2.50	1.6	9.8
50.1	55	2.50	1.7	10.0
55.1	60	2.50	1.8	10.2
60.1	65	3.15	1.9	11.7
65.1	70	3.15	2.0	11.9
70.1	-	3.15	2.1	12.1



► **APPLICATION**

External grade cable for data transmission and local network distribution systems.

► **CONSTRUCTION**

Conductor : Solid, plain copper wire to BS4109

Insulation : Solid or cellular Polyethylene to BS6234

Lay-up : Cores twisted into pairs and cross stranded to form units/sub units. These are laid up to form compact circular cable

Wrapping : Cable lapped longitudinally with polyester or paper tape

Screen : Cable screened with aluminium/copper tape

Sheath : PVC to BS6746 (Black)

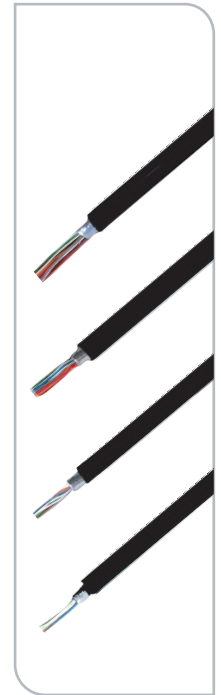
No. of Pairs	No. of Cores	A-Wire Insul.	B-Wire Insul.	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Core Dia. (mm)	Sheath R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Cap. Unbal-ance (PF)-500M	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	WHI	BLU											1
2	4	WHI	ORG	0.33	0.24	1.13	1.5	7.15	56	10000	150	58	TL6002	2
3	6	WHI	GRN	0.33	0.24	1.13	1.5	7.25	56	10000	150	68	TL6003	3
4	8	WHI	BRN											4
5	10	WHI	GRY	0.33	0.24	1.13	1.5	9.76	56	10000	150	105	TL6005	5
6	12	RED	BLU	0.33	0.24	1.13	1.5	9.76	56	10000	150	130	TL6006	6
7	14	RED	ORG											7
8	16	RED	GRN											8
9	18	RED	BRN											9
10	20	RED	GRY	0.33	0.24	1.13	1.5	11.55	56	10000	150	158	TL6010	10

Cables over 10 pair are constructed with 10 pair units with above color coding

20	40			0.33	0.24	1.13	1.5	14.07	56	10000	150	252	TL6020	20
30	60			0.33	0.24	1.13	1.5	15.96	56	10000	150	347	TL6030	30
40	80			0.33	0.24	1.13	1.5	17.75	56	10000	150	420	TL6040	40
50	100			0.33	0.24	1.13	1.7	19.32	56	10000	150	515	TL6050	50
60	120			0.33	0.24	1.13	1.7	20.07	56	10000	150	599	TL6060	60
70	140			0.33	0.24	1.13	1.7	22.05	56	10000	150	683	TL6070	70
100	200			0.33	0.24	1.13	1.7	25.50	56	10000	150	903	TL6100	100

Each unit is lapped with colored tape for identification as follows

Unit 1	BLU
Unit 2	ORG
Unit 3	GRN
Unit 4	BRN
Unit 5	GRY
Unit 6	WHI
Unit 7	RED
Unit 8	BLK
Unit 9	YEL
Unit 10	VIO





APPLICATION

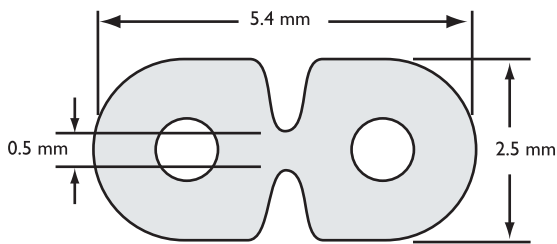
Dropwire No.6 is used for the connection of subscriber's distribution points to the external, overhead distribution point.

CONSTRUCTION

Conductor : Copper covered steel wire to BS4807

Insulation : PVC to BS6746 (Black or Grey)

No. of Pairs	No. of Cores	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	0.52	0.76	2.5 x 5.4	122	50	15	DW8108	1



APPLICATION

This drop wire is used for overhead distribution to the subscribers installation.

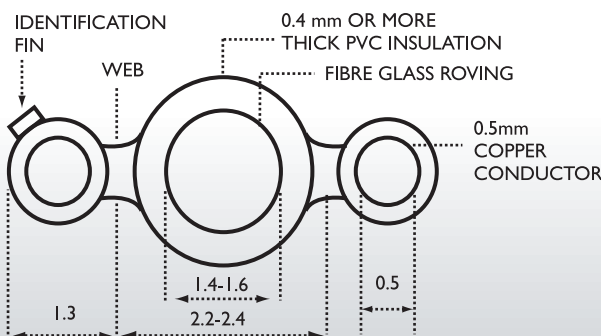
CONSTRUCTION

Conductor : Plain annealed copper wire to BS4109

Insulation : PVC (Black)

Cabling : Two copper conductors of the drop wire and fibre glass roving of suitable dimensions shall be insulated with PVC compound extruded over the fibre glass roving integral with the conductor wires to form a cross-section of the shape as given below

No. of Pairs	No. of Cores	Cond. Area (mm ²)	Cond. Insul. R/T (mm)	Approx. OD (mm)	Cond. Res. at 20°C (Ω/km)	Insul. Res. (MΩ/km)	Approx. Weight (kg/km)	PART NO.	No. of Pairs
1	2	0.2	0.4	2.5 x 5.4	91	20	15	DW50FI	1





Jumper wires & Equipment wires are utilised for cross connections on instrument panels, and throughout industry on all types of electronics equipment.

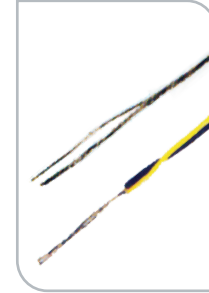
JUMPER WIRES

► CONSTRUCTION

Conductor : Solid tinned copper wire to BS4109

Insulation : PVC to BS6746

No. of Cores	Cond. Dia.	Cond. Area	Cond. Insul. R/T	Core Dia.	Cond. Res. at 20°C	Insul. Res.	Approx. Weight	PART NO.
	(mm)	(mm ²)	(mm)	(mm)	(Ω/km)	(MΩ/km)	(kg/km)	
2	0.4	0.13	0.25	1.0	153	50	3.43	JW4002
2	0.5	0.20	0.25	1.1	98	50	5.45	JW5002
2	0.6	0.28	0.25	1.2	68	50	7.40	JW6002



SOLID CONDUCTORS

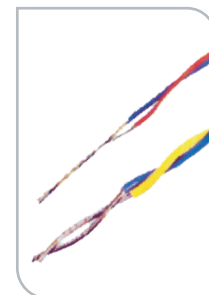
► CONSTRUCTION

Conductor : Solid tinned copper wire to BS4109

Insulation : PVC to BS6746

Options : Single or bi-colours

No. of Cores	Cond. Dia.	Cond. Area	Cond. Insul. R/T	Core Dia.	Cond. Res. at 20°C	Insul. Res.	Approx. Weight	PART NO.
	(mm)	(mm ²)	(mm)	(mm)	(Ω/km)	(MΩ/km)	(kg/km)	
1	0.4	0.126	0.2	0.85	150	50	1.65	ES4001
1	0.5	0.20	0.2	0.95	65	50	2.4	ES5001
1	0.6	0.28	0.2	1.05	65	50	3.2	ES6001
1	0.9	0.64	0.25	1.6	29	50	7.0	ES9001



STRANDED CONDUCTORS

► CONSTRUCTION

Conductor : Solid tinned copper wire to BS6360

Insulation : PVC to BS6746

Options : Single or bi-colours

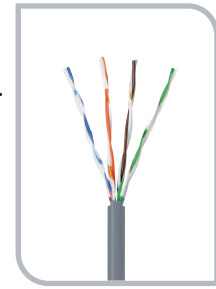
Cond.	Cond. Area	Cond. Insul. R/T	Core Dia.	Ap-prox. OD	Cond. Res. at 20°C	Insul. Res.	Rating	Weight	PART NO.
	(mm ²)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ/km)		(kg/km)	
7x 0.2mm	0.22	0.30	1.20	1.2	83	50	220/1A	5.5	EF7201
16x 0.2mm	0.50	0.45	1.85	1.81	40	50	220/2.5A	7.5	EF16201





UNSCREENED TWISTED PAIR (UTP) CABLES - DATA CABLE

This cable meets or exceeds the requirements of TIA/EIA 568-B.2 and ISO/IEC 11801. Suitable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LAN's. Support Gigabit Ethernet (1000 baseT) standard.



CONSTRUCTION

Cable Type : Cu / PVC

Conductor : 24 AWG solid bare copper

Insulation : Polyethylene

Pairs : 2 insulated conductors twisted together, lays varied to minimise crosstalk.
4 pairs twisted together.

Sheath : PVC (Grey, Orange, Blue) or LSOH (Violet), 6.35mm overall diameter maximum.
Other colours available on request.

COLOR CODE

Pair	Conductor 1	Conductor 2
1	Blue	White / Blue
2	Orange	White / Orange
3	Green	White / Green
4	Brown	White / Brown

CONNECTION SYSTEMS

Compatible with all common systems according to EN 50173, ISO/IEC 11801 and TIA/EIA 568-B.

ELECTRICAL PROPERTIES

Conductor Resistance : < 9.38 Ω/100m

Mutual Capacitance : < 5.6 nF/100m

Resistance Unbalance : 3% maximum

Capacitance Unbalance : 330 pF/km

Delay Skew : < 45 ns

NVP : 68%

MECHANICAL PROPERTIES

Bending Radius

During Installation : > 42 mm

After Installation : > 21 mm

Pulling Force : < 65 N

Temperature Range : -15°C +/-70°C

Heat of Combustion : 373 MJ/km

PACKAGING

Available in easy-pull boxes (305m) or non-returnable reels of longer lengths.

Frequency (Mhz)	Attenuation (db/100m)	NEXT (db/100m)	PSNEXT (db/100m)	ELFEXT (db/100m)	PSELFEXT (db/100m)	Return Loss (db)
0.77	1.8	67.0	64.0	66.0	63.0	-
1.00	2.0	65.3	62.3	63.8	60.8	20.0
4.00	4.1	56.3	53.3	51.7	48.7	23.0
8.00	5.8	51.8	48.8	45.7	42.7	24.5
10.00	6.5	50.3	47.3	43.8	40.8	25.0
16.00	8.2	47.3	44.3	39.7	36.7	25.0
20.00	9.3	45.8	42.8	37.7	34.7	25.0
25.00	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.50	17.0	38.4	35.4	27.8	24.8	21.5
100.00	22.0	35.3	32.3	23.8	20.8	20.0





UNSCREENED TWISTED PAIR (UTP) CABLES - DATA CABLE

This cable meets or exceeds the requirements of TIA/EIA 568-B.2 and ISO/IEC 11801. Suitable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LAN's. Support Gigabit Ethernet (1000 baseT) standard. The X-Separator at the center ensures Cat 6 performance.



CONSTRUCTION

Cable Type : Cu / PVC

Conductor : 0.56mm solid bare copper

Insulation : Polyethylene

Pairs : 2 insulated conductors twisted together, lays varied to minimise crosstalk.
4 pairs twisted together.

Sheath : PVC (Grey, Orange, Blue) or LSOH (Violet), 6.50mm overall diameter maximum.
Other colours available on request.

COLOR CODE

Pair	Conductor 1	Conductor 2
1	Blue	White / Blue
2	Orange	White / Orange
3	Green	White / Green
4	Brown	White / Brown

CONNECTION SYSTEMS

Compatible with all common systems according to EN 50173, ISO/IEC 11801 and TIA/EIA 568-B.

ELECTRICAL PROPERTIES

Conductor Resistance : 141 Ω /100m

Mutual Capacitance : 49 pF/km (nom.)

Resistance Unbalance : 2% maximum

Capacitance Unbalance : 1600 pF/km

Delay Skew : 400 ns/km

NVP : 68%

MECHANICAL PROPERTIES

Bending Radius

During Installation : 8xD

After Installation : 4xD

Pulling Force : 100 N

Temperature Range : -15°C +60°C

Heat of Combustion : 373 MJ/km

PACKAGING

Available in easy-pull boxes (305m) or non-returnable reels of longer lengths.

Frequency (Mhz)	Attenuation (db/100m)	NEXT (db/100m)	PSNEXT (db/100m)	ELFEXT (db/100m)	PSELFEXT (db/100m)	Return Loss (db)
1.0	2.0	74.3	72.3	67.8	64.8	20.0
4.0	3.8	65.3	63.3	55.8	52.8	23.0
8.0	5.3	60.8	58.8	49.7	46.7	24.5
10.0	6.0	59.3	57.3	47.8	44.8	25.0
16.0	7.6	56.2	54.2	43.7	40.7	25.0
20.0	8.5	54.8	52.8	41.8	38.8	25.0
25.0	9.5	53.3	51.3	39.8	36.8	24.3
31.25	10.7	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	54.4	31.9	28.9	21.5
100.0	19.8	44.3	42.3	27.8	24.8	20.1
200.0	29.0	39.8	37.8	21.8	18.8	18.0
250.0	32.8	38.3	36.3	19.8	16.8	17.3



SuperLAN
HIGH PERFORMANCE DATA CABLES

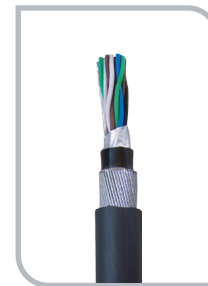


MULTIPAIR / MULTICORE INSTRUMENTATION CABLES

Generally to BS5308 Parts 1 & 2

INSTRUMENTATION CABLES -generally to BS5308

Conforming to British Standard Authorities specifications, instrumentation cables are suitable for computer-controlled electrical and electronic equipment.



PART 1 - POLYETHYLENE INSULATED

CONSTRUCTION

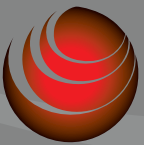
- Conductor** : Plain Annealed Copper
- Insulation** : Polyethylene BS6234 Type 03
- Voltage** : 300V core to earth & 500V core to core at max.
Temperature of 65°C
- Pair Identification** : (a) Collectively screened cables
(b) Individually screened pairs - one blue core and one black core in each pair.
 1. Pairs identified by numbered tapes
 2. Pair screens - aluminium / p.e.t.p. laminated tape applied with the metallic side down in electrical contact with a 0.5 sq.mm tinned copper drain wire.
- Binder Tape** : A 23 micron polyester tape applied with a minimum 50% overlap.
- Collective Screen** : Aluminium / polyester laminated tape applied with the metallic side down in electrical contact with a 0.5 sq.mm tinned copper drain wire over the polyester binder tape.
- Outer Protection** : TYPE 1 - Extruded flame retardent PVC sheath
TYPE 2 - Extruded polyethylene bedding
Galvanised steel wire armour
Extruded flame retardant PVC sheath

PART 2 - PVC INSULATED

CONSTRUCTION

- Conductor** : Plain Annealed Copper
- Insulation** : PVC to BS6746 Type T1
- Voltage** : 300V core to earth & 500V core to core at max.
Temperature of 65°C
- Core / Pair Identification** : Multipair Cables
- Binder Tape** : A 23 micron p.e.t.p. tape applied with a minimum 50% overlap
- Collective Screen** : Aluminium / p.e.t.p. laminated tape applied with the metallic side down in electrical contact with a 0.5 sq.mm tinned copper drain wire over the polyester binder tape.
- Outer Protection** : TYPE 1 - Extruded flame retardent PVC sheath
TYPE 2 - Extruded polyethylene bedding
Galvanised steel wire armour
Extruded flame retardant PVC sheath

Note: These cables are not for direct connection to public mains electricity supply.



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