



CLEVELAND CABLE COMPANY

A WORLD POWER IN CABLE SUPPLY

The Electrical Wholesalers
Cable And Accessory

EDITION 2

www.clevelandcable.com



Cleveland Cable Company, established in 1978, is undoubtedly **the foremost distributor of electrical cables** in the UK and possibly Europe.

The Head Office and principal stocking location is located at Middlesbrough in the North East of England. This site covers an area of twelve acres and includes over 160,000 square feet of warehousing. Additionally there are regional depots at Bristol, Glasgow, London, Milton Keynes, Newcastle and Warrington. Each location holds comprehensive stocks and is equipped with the most modern handling and measuring equipment. Deliveries are made by our own fleet of purpose-designed vehicles, all of which are fitted with hydraulic lifting equipment for safe offloading onsite and also efficient collection of empty drums.

As is illustrated within our catalogue, we stock a comprehensive range of cables for every conceivable application. All types shown are considered as standard items to our range and are always available for immediate delivery. Our stocks are extremely large and unrivalled in the industry.

We are fortunate to have a very experienced and dedicated team of people who are able to assist

and advise. Additionally our policy of continuing investment in the best available technology, warehousing, handling and measuring equipment and delivery vehicles enables us to guarantee all our customers an extremely high quality service.

Enquiries are welcome from customers worldwide. Our export service is efficient and reliable with the ability to ship by air or sea freight to any destination.

Please feel free to contact the distribution centre of your choice for an immediate, professional and trouble free service.

Middlesbrough 01642 241133
Bristol 01179 382222
Glasgow 0141 646 5000
Milton Keynes 01908 221414

London 0208 311 4141
Newcastle 0191 263 3363
Warrington 01925 655383



6491X (HO7V-R) PVC

Stranded plain annealed compacted circular copper conductor, PVC outer sheath. Ref 6491X. Harmonised code HO7V-R. 450/750 volts grade to BS EN 50525-2-31. Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)	Brass A2	Nylon A2
6491X1/5	1.5	7/0.53	21	3.00	20/16	16
6491X2/5	2.5	7/0.67	35	3.65	20/16	16
6491X4	4.0	7/0.85	50	4.20	20/16	16
6491X6	6.0	7/1.04	71	4.75	20/16	16
6491X10	10.0	7/1.35	120	6.15	20/16	16
6491X16	16.0	7/1.70	180	7.10	20/16	16
6491X25	25.0	7/2.14	280	8.90	20S	20
6491X35	35.0	7/2.52	380	9.95	20S	20
6491X50	50.0	19/1.78	510	11.70	20	20
6491X70	70.0	19/2.14	720	13.35	20	25
6491X95	95.0	19/2.52	990	15.60	25	25
6491X120	120.0	37/2.03	1200	17.20	25	25
6491X150	150.0	37/2.25	1500	19.10	25	32
6491X185	185.0	37/2.52	1900	21.30	32	32
6491X240	240.0	61/2.25	2500	24.30	32	32
6491X300	300.0	61/2.52	3000	27.05	40	40
6491X400	400.0	61/2.85	3950	30.35	40	40
6491X500	500.0	61/3.20	4950	32.80	50S	50
6491X630	630.0	127/2.50	6250	36.50	50S	50

Temperature limits:
-15 to +70°C.

*Bending radius: up to 10mm²
- 3 x overall diameter. above
25mm² - 6 x overall diameter.

Standard colours available:
1.5mm² & 2.5mm² - Brown,
Black, Grey, Blue,
Green/Yellow, White, Orange,
Turquoise, Violet, Pink

4mm²-630mm² - Brown,
Black, Grey, Blue,
Green/Yellow.

Should not be installed at
temperatures below 0°C or
above +60°C.



BARE COPPER STRAND

Stranded plain annealed compacted circular copper conductor, non insulated and non sheathed. 450 volts grade, soft drawn to BS6360/81.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)
CB006	6.0	7/1.04	58	3.0
CB010	10.0	7/1.35	96	4.2
CB016	16.0	7/1.70	154	5.1
CB025	25.0	7/2.14	240	5.9
CB035	35.0	7/2.52	336	7.8
CB050	50.0	19/1.78	480	8.8
CB070	70.0	19/2.14	672	9.8
CB095	95.0	19/2.52	912	12.5
CB120	120.0	37/2.03	1152	12.8
CB150	150.0	37/2.25	1440	14.4
CB185	185.0	37/2.52	1776	16.1
CB240	240.0	61/2.25	2304	19.8
CB300	300.0	61/2.52	2800	20.6
CB400	400.0	61/2.85	3750	26.4

Temperature limits:
- 15 to + 70°C.

*Bending radius:
Up to 10mm - 3 x overall
diameter.
Above 25mm - 6 x overall
diameter.

WHOLESALE FACTS

"Cleveland Cable Company has in stock over 2 million metres of 6491X 1.5mm to 6mm since building a specialist pallet warehouse at the Head Office in Middlesbrough."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



6491B (HO7Z-R) LSZH

Stranded plain annealed compacted circular copper conductor, low smoke and zero halogen (LSZH) outer sheath. 450/750 volts grade to BS7211/BS EN 50525-3-41. Acid gas emission to BS EN 50267 (IEC60754), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to BS EN 50265 (IEC 60332), low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)	Brass A2	Nylon A2
6491B1/5	1.5	7/0.53	22	3	20/16	16
6491B2/5	2.5	7/0.67	33	3.65	20/16	16
6491B4	4.0	7/0.85	49	4.2	20/16	16
6491B6	6.0	7/1.04	69	4.75	20/16	16
6491B10	10.0	7/1.35	116	6.15	20/16	16
6491B16	16.0	7/1.70	175	7.1	20/16	16
6491B25	25.0	7/2.14	273	8.9	20S	20
6491B35	35.0	7/2.52	367	9.95	20S	20
6491B50	50.0	19/1.78	510	11.7	20	20
6491B70	70.0	19/2.14	715	13.35	20	25
6491B95	95.0	19/2.52	990	15.6	25	25
6491B120	120.0	37/2.03	1230	17.2	25	25
6491B150	150.0	37/2.25	1510	19.1	25	32
6491B185	185.0	37/2.52	1900	21.3	32	32
6491B240	240.0	61/2.25	2490	24.36	32	32
6491B300	300.0	61/2.52	3050	27.05	40	40
6491B400	400.0	61/2.85	3842	30.35	40	40
6491B500	500.0	61/3.20	4900	32.8	50S	50
6491B630	630.0	127/2.50	6334	36.5	50S	50

Temperature limits:
-15 to +90°C.

*Bending radius:
up to 10mm² - 3 x overall
10 to 25mm² - 4 x overall
diameter.
Above 25mm² - 6 x overall
diameter.

Standard colours available:
1.5mm² & 2.5mm² - Brown,
Black, Grey, Blue,
Green/Yellow, White, Orange,
Turquoise, Violet, Pink.
4mm² - 630mm² - Brown,
Black, Grey, Blue,
Green/Yellow.

Should not be installed at
temperatures below 0°C or
above +40°C.

WHOLESALE FACTS

"In our pallet warehouse at Middlesbrough depot we have in excess of 4 million metres of 6491B 1.5mm to 6mm."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



SURFACE WIRING CABLES PVC 6181Y

Plain annealed stranded circular copper conductor, single core, PVC insulated, PVC sheathed, Ref 6181 Y. 300/500 volts grade to BS6004 120mm rated at 600/1000 V. Brown/Grey or Blue/Grey. Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat Size
6181Y1	1.0	1/1.13	1	28	4.5	20/16	-
6181Y1/5	1.5	1/1.38	1	36	5.1	20/16	-
6181Y2/5	2.5	1/1.78	1	51	6.0	20/16	-
6181Y4	4.0	7/0.85	1	75	6.8	20/16	-
6181Y6	6.0	7/1.04	1	98	7.4	20/16	-
6181Y10	10.0	7/1.35	1	150	8.8	20S	-
6181Y16	16.0	7/1.70	1	220	10.5	20S	0.5
6181Y25	25.0	7/2.14	1	340	12.5	20	0.5
6181Y35	35.0	7/2.52	1	440	13.5	25	0.6
6181Y50	50.0	19/1.78	1	540	14.38	25	0.6
6181Y70	70.0	19/2.14	1	750	15.3	25	0.7
6181Y95	95.0	19.2.52	1	1010	17.7	25	0.7
6181Y120	120.0	37/2.03	1	1250	19.3	32	0.8

Temperature limits:
-15 to +70°C.

•Bending radius:
up to 10mm² - 3 x overall diameter, over 10mm² - 4 x overall diameter.

Should not be installed at temperatures below 0°C or above +60°C.



SURFACE WIRING CABLES PVC 624*Y

Plain annealed copper conductor, PVC insulated one, two or three cores laid flat with an uninsulated circuit protective conductor and PVC sheathed. Grey. Ref 6241/2/3Y 300/500 V to BS6004. Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	CPC Size (mm ²)	Weight (Kg/Km)	Overall Diameter (mm)
6241Y1BR	1.0	1/1.13	1	1.0	49	4.15 X 5.40
6241Y1/5BR	1.5	1/1.37	1	1.0	51	4.65 X 5.80
6242Y1	1.0	1/1.13	2	1.0	69	4.10 X 8.65
6242Y1/5	1.5	1/1.38	2	1.0	85	4.55 X 8.80
6242Y1/5BRBR	1.5	1/1.38	2	1.0	85	4.55 X 8.80
6242Y2/5	2.5	1/1.77	2	1.5	120	5.40 X 10.50
6242Y4	4.0	7/0.85	2	1.5	175	6.10 X 12.00
6242Y6	6.0	7/1.04	2	2.5	240	6.90 X 13.80
6242Y10	10.0	7/1.35	2	4.0	390	8.40 X 18.50
6242Y16	16.0	7/1.70	2	6.0	560	9.70 X 20.60
6243Y1	1.0	1/1.13	3	1.0	92	4.60 X 10.20
6243Y1/5	1.5	1/1.37	3	1.0	115	4.75 X 11.45
6243Y2/5	2.5	1/1.77	3	1.5	170	5.45 X 13.40

Temperature limits:
- 15 to + 70°C.

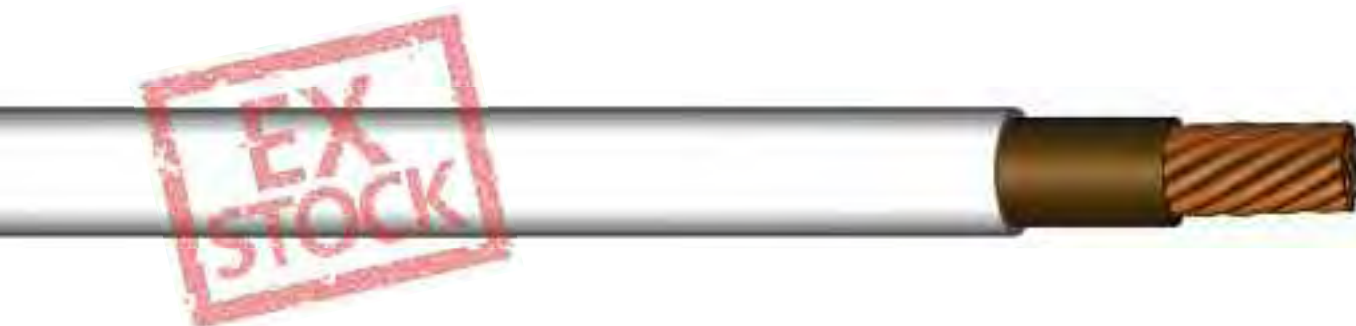
*Bending radius:
Up to 10mm - 3 x overall diameter.
Above 10mm - 6 x overall diameter.

WHOLESALE FACTS

"For immediate dispatch from our pallet storage warehouse we have over 3 million metres of 'twin and earth' cables."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



SURFACE WIRING CABLES LSZH 6181B

Plain annealed stranded circular copper conductor, single core, XLPE insulated, (LSZH) sheathed, Ref 6181B. 300/500 volts grade to BS7211. Brown/White or Grey/White. Acid gas emission to BS EN 50267 (IEC60754), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to BS EN 50265 (IEC 60332), low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Ref	Nylon Size
6181B1	1.0	1/1.13	1	28	4.5	20/16	-
6181B1/5	1.5	1/1.38	1	34	5.1	20/16	-
6181B2/5	2.5	1/1.78	1	49	6.0	20/16	-
6181B4	4.0	7/0.85	1	75	6.8	20/16	-
6181B6	6.0	7/1.04	1	99	7.4	20/16	-
6181B10	10.0	7/1.35	1	155	8.8	20S	-
6181B16	16.0	7/1.04	1	225	10.5	20S	0.5
6181B25	25.0	7/2.14	1	340	12.5	20	0.5
6181B35	35.0	7/2.52	1	440	13.5	25	0.6

Temperature limits:
-25 to +90°C.

*Bending radius:
up to 10mm² - 3 x overall diameter.
over 10mm² - 4 x overall diameter.

Should not be installed at temperatures below 0°C or above +40°C.



SURFACE WIRING CABLES LSZH 624*B

Plain annealed compacted copper conductor, XLPE insulated, one, two or three cores laid flat with an uninsulated circuit protective conductor and (LSZH) sheathed. White. Ref 6241/2/3B 300/500V to BS7211 low smoke and zero halogen (LSZH). Acid gas emission to BS EN 50267 (IEC60754), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to BS EN 50265 (IEC 60332), low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No.Of Cores	CPC Size (mm ²)	Weight (Kg/Km)	Overall Diameter (mm)
6241B1/5BR	1.5	1/1.37	1	1.0	51	4.65 X 5.80
6241B1/5BR	1.5	1/1.37	1	1.0	51	4.65 X 5.80
6242B1WH	1.0	1/1.13	2	1.0	69	4.10 X 8.65
6242B1/5WH	1.5	1/1.37	2	1.0	85	4.55 X 8.80
6242B1/5BRBR	1.5	1/1.37	2	1.0	85	4.55 X 8.80
6242B2/5WH	2.5	1/1.77	2	1.5	120	5.40 X 10.50
6242B4WH	4.0	7/0.85	2	1.5	175	6.10 X 12.00
6242B6WH	6.0	7/1.04	2	2.5	240	6.90 X 13.80
6242B10WH	10.0	7/1.35	2	4.0	390	8.40 X 18.50
6242B16WH	16.0	7/1.70	2	6.0	560	9.70 X 20.60
6243B1WH	1.0	1/1.13	3	1.0	92	4.60 X 10.20
6243B1/5WH	1.5	1/1.37	3	1.0	115	5.75 X 11.45
6243B2/5WH	2.5	1/1.77	3	1.5	170	5.30 X 12.80

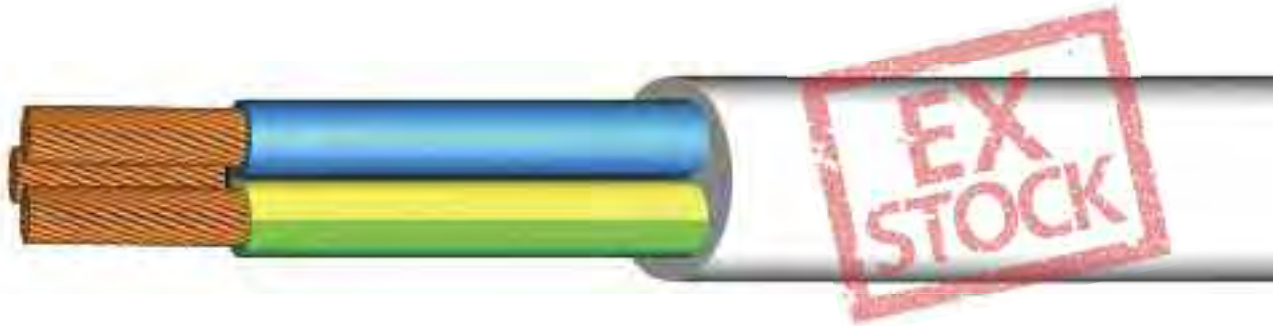
Temperature limits:
-25 to +90°C.

*Bending radius:
Fixed = 3 x diameter

Should not be installed at temperatures below 0°C or above +40°C.

WHOLESALE FACTS

"We are selling on average 2 million metres of LSZH twin and earth cable to wholesalers every month.."



PVC INSULATED FLEXIBLE CORDS 218*Y - 318*Y

Plain annealed flexible copper conductors, PVC insulated, PVC outer sheath. Black or White. 300/500 volts grade to BS EN 50525-2-11. (Harmonised code HO5VV-F). Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
**2182Y/5	0.5	16/0.20	2	36	5.4	20/16
**2182Y/75	0.75	24/0.20	2	45	5.8	20/16
**2183Y/5	0.5	16/0.20	3	44	5.6	20/16
**2183Y/75	0.75	24/0.20	3	55	6.1	20/16
3182Y/5	0.5	16/0.20	2	52	6.3	20/16
3183Y/5	0.5	16/0.20	3	54	6.3	20/16
3182Y/75	0.75	24/0.20	2	59	6.8	20/16
3183Y/75	0.75	24/0.20	3	70	7.2	20/16
3184Y/75	0.75	24/0.20	4	85	7.7	20/16
3185Y/75	0.75	24/0.20	5	110	8.5	20S
3182Y1	1.0	24/0.20	2	69	7.2	20/16
3183Y1	1.0	32/0.20	3	82	7.6	20/16
3184Y1	1.0	32/0.20	4	105	8.5	20S
3185Y1	1.0	32/0.20	5	130	9.1	20S
3182Y1/5	1.5	30/0.25	2	95	8.2	20/16
3183Y1/5	1.5	30/0.25	3	120	8.9	20S
3184Y1/5	1.5	30/0.25	4	150	10.0	20S
3185Y1/5	1.5	30/0.25	5	180	11.0	20
3182Y2/5	2.5	50/0.25	2	145	9.9	20S
3183Y2/5	2.5	50/0.25	3	180	10.8	20S
3184Y2/5	2.5	50/0.25	4	220	11.3	20
3185Y2/5	2.5	50/0.25	5	265	12.8	20

Temperature limits:
Fixed - -5 to +60°C.
Flexing - +5 to +60°C.

*Bending radius:
Fixed 2 x overall diameter.
Flexing 6 x overall diameter.

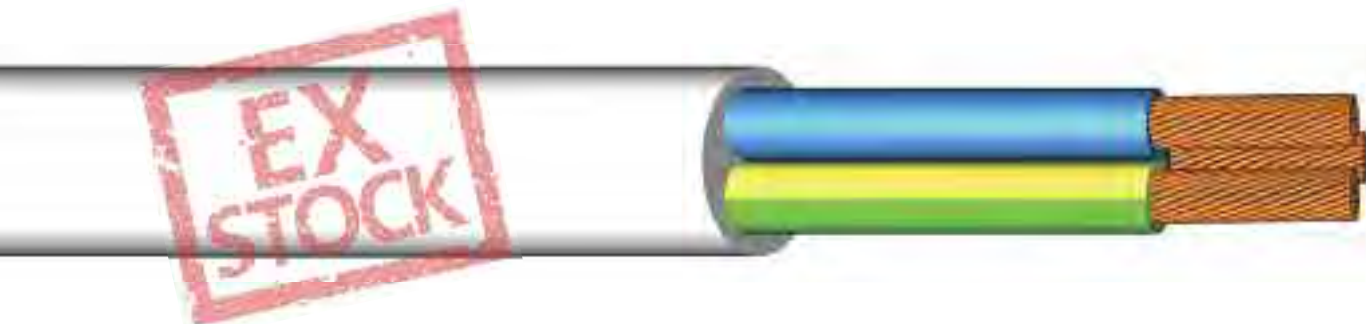
Core identification:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.

Should not be installed at temperatures below 0°C.

**Light flexible cords
300/300 volts grade

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



PVC INSULATED FLEXIBLE CORDS 309*Y

Plain annealed flexible copper conductors heat resisting PVC outer sheath.
White 300/500 volts grade to BS6141. Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
3092Y/5	0.5	16/0.20	2	46	6.3	20/16
3093Y/5	0.5	16/0.20	3	66	6.5	20/16
3094Y/5	0.5	16/0.20	4	70	7.2	20/16
3092Y/75	0.75	24/0.20	2	56	6.8	20S
3093Y/75	0.75	24/0.20	3	68	7.2	20S
3094Y/75	0.75	24/0.20	4	85	7.7	20S
3095Y/75	0.75	24/0.20	5	104	8.5	20S
3092Y1	1.0	32/0.20	2	65	7.2	20S
3093Y1	1.0	32/0.20	3	77	7.6	20S
3094Y1	1.0	32/0.20	4	100	8.5	20S
3092Y1/5	1.5	30/0.25	2	80	8.2	20S
3093Y1/5	1.5	30/0.25	3	100	8.9	20S
3094Y1/5	1.5	30/0.25	4	130	10.0	20
3092Y2/5	2.5	50/0.25	2	135	10.0	20S
3093Y2/5	2.5	50/0.25	3	150	10.8	20
3094Y2/5	2.5	50/0.25	4	195	11.8	20

Temperature limits:
Fixed - -5 to +90°C.
Flexing - +5 to +90°C.

*Bending radius:
Fixed - 2 x overall diameter.
Flexing - 6 x overall diameter.

Core identification:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow.

Should not be installed at temperatures below 0°C.



ARCTIC GRADE FLEXIBLE CORDS

Plain annealed flexible copper conductors, low temperature PVC insulation, low temperature PVC outer sheath. Blue or Yellow. 300/500 volts grade to BS7919 table 44 and BS6500. Flame propagation to BS EN 50265.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
3183AG1/5	1.5	30/0.25	3	90	8.20	20S
3184AG1/5	1.5	30/0.25	4	130	9.55	20S
3183AG2/5	2.5	50/0.25	3	180	10.15	20S
3184AG2/5	2.5	50/0.25	4	220	11.30	20
3183AG4	4	56/0.30	3	240	11.40	20
3183AG6	6	76/0.30	3	315	13.2	20

Temperature limits:
Flexing - -40 to +70°C.

*Bending radius:
6 x overall diameter.

Core identification:
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.



**EX
STOCK**

ZERO HALOGEN FLEXIBLE CORDS (HO5 ZIZI-F)

Plain annealed copper conductors, Low smoke and zero halogen (LSZH) insulated, low smoke and zero halogen (LSZH) outer sheath. Black or white. 300/500 volts grade (BS EN 50525-3-11) Harmonised code HO5 ZIZI-F. Acid gas emission to BS EN 50267-2(IEC 60754-2), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to BS EN 50265 (IEC 60332-1).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
3182B/75	0.75	24/0.2	2	59	6.8	20/16
3183B/75	0.75	24/0.2	3	70	7.2	20/16
3184B/75	0.75	24/0.2	4	85	7.7	20/16
3185B/75	0.75	24/0.2	5	110	8.5	20S
3182B1	1.0	32/0.2	2	69	7.2	20/16
3183B1	1.0	32/0.2	3	82	7.6	20/16
3184B1	1.0	32/0.2	4	105	8.5	20S
3185B1	1.0	32/0.2	5	130	9.1	20S
3186B1	1.0	32/0.2	6	136	9.8	20S
3182B1/5	1.5	30/0.25	2	95	8.2	20/16
3183B1/5	1.5	30/0.25	3	120	8.9	20S
3184B1/5	1.5	30/0.25	4	150	10	20S
3185B1/5	1.5	30/0.25	5	180	11	20
3186B1/5	1.5	30/0.25	6	201	10.1	20S
3182B2/5	2.5	50/0.25	2	145	9.9	20S
3183B2/5	2.5	50/0.25	3	180	10.8	20S
3184B2/5	2.5	50/0.25	4	220	11.3	20
3185B2/5	2.5	50/0.25	5	265	12.8	20
3183B4	4.0	56/0.30	4	217	10.92	20
3184B4	4.0	56/0.30	5	283	12.21	20

Temperature limits:
-15 to +70°C.

*Bending radius:
Fixed 4x overall diameter
Flexing 6x overall diameter

Core identification:
2 core - Brown, Blue.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.
6 core - Blue, Brown, Black, Red, White, Green/Yellow.

Should not be installed at temperatures below 0°C.

SCREENED FIXED WIRING AND MAINS CABLES TO BS 8436

Plain annealed stranded copper, XLPE insulated, tinned annealed stranded copper earth wire, bonded aluminium tube applied longitudinally, low smoke and zero halogen (LSZH) outer sheath, to BS EN 50267-1:1998 and BS EN 50268-2:2000, UV Stable. 600/1000v to BS8436, White. Acid gas emissions to BS EN 50267-2-1, smoke emissions to BS EN 50268-2 and flame retardant to BS EN 60332-1-2 (IEC 60332-1-1).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	1 Hole Clip Ref	Gland Ref
CSX2X1WH	1.0	7/0.44	2	85	8.60	RCHL34	20SA2
CSX3X1WH	1.0	7/0.44	3	105	9.40	RCHL37	20SA2
CSX4X1WH	1.0	7/0.44	4	130	10.00	RCHL37	20A2
CSX2X1/5WH	1.5	7/0.53	2	106	9.80	RCHL37	20A2
CSX3X1/5WH	1.5	7/0.53	3	140	10.40	RCHL40	20A2
CSX4X1/5WH	1.5	7/0.53	4	158	11.30	RCHL43	20A2
CSX2X2/5WH	2.5	7/0.67	2	135	10.80	RCHL43	20A2
CSX3X2/5WH	2.5	7/0.67	3	182	11.10	RCHL43	20A2
CSX4X2/5WH	2.5	7/0.67	4	259	12.60	RCHL47	20A2
CSX2X4WH	4	7/0.85	2	206	11.50	RCHL43	20A2
CSX3X4WH	4	7/0.85	3	265	13.10	RCHL51	25A2
CSX4X4WH	4	7/0.85	4	320	13.90	RCHL54	25A2
CSX2X6WH	6	7/1.04	2	258	13.10	RCHL51	25A2
CSX3X6WH	6	7/1.04	3	328	14.20	RCHL54	25A2
CSX4X6WH	6	7/1.04	4	450	14.90	RCHL59	25A2
CSX2X10WH	10	7/1.35	2	413	16.1	RCHL63	25A2

Minimum installation temperature:
-10°C.

Maximum continuous conductors operating temperature: +90°C.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.

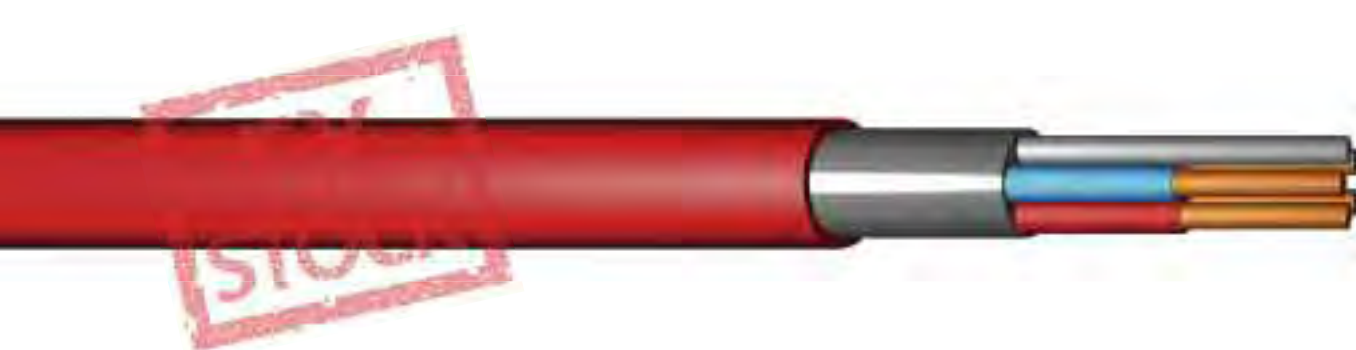
Solid cores available on request.
Different sheath and core colours available on request.

10mm² and 16mm² available on request.

Also available in 300/500 volt rating.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



STANDARD FIRE ALARM AND SECURITY WIRING CABLES

Plain annealed copper conductor, silicon rubber insulated aluminium/polyester tape screen, tinned annealed copper earth wire, low smoke zero halogen (LSZH) outer sheath. Red, White, Orange or Black. Fire resistant to IEC 331 and BS6387. Flame retardant to BS5839-1:2003 and IEC 60332-3 CAT CWZ, BS7629-1 1997. Acid gas emission to BS EN 50267 (IEC60754), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to BS EN 50265, BS EN 50266 (IEC 60332).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	1 Hole Clip Ref	Gland Ref
FP2X1	1.0	1/1.13	2+E	90	7.5	20	28	251
FP3X1	1.0	1/1.13	3+E	110	8.0	20	30	251
FP4X1	1.0	1/1.13	4+E	135	8.8	20	34	251
FP7X1	1.0	1/1.13	7+E	170	10.5	20	40	252
FP12X1	1.0	1/1.13	12+E	270	13.7	25	54	254
FP2X1/ 5	1.5	1/1.38	2+E	110	8.0	20	32	251
FP3X1/ 5	1.5	1/1.38	3+E	130	8.4	20	34	251
FP4X1/5	1.5	1/1.38	4+E	160	9.5	20	37	251
FP7X1/5	1.5	1/1.38	7+D	230	11.3	20	43	252
FP12X1/5	1.5	1/1.38	12+D	365	15.2	25	59	254
FP19X1/5	1.5	1/1.38	19+D	540	17.8	25	67	254
FP2X2/5	2.5	1/1.78	2+E	160	9.0	20	34	252
FP3X2/5	2.5	1/1.78	3+E	200	10.5	20	40	252
FP4X2/5	2.5	1/1.78	4+E	250	11.7	20	43	252
FP7X2/5	2.5	1/1.78	7+D	285	13.7	20	54	252
FP12X2/5	2.5	1/1.78	12+D	470	17.9	25	67	254
FP19X2/5	2.5	1/1.78	19+D	720	21.4	32	79	255
FP2X4	4.0	7/0.85	2+E	260	11.3	20	43	252
FP3X4	4.0	7/0.85	3+E	315	12.1	25	47	254
FP4X4	4.0	7/0.85	4+E	380	13.3	25	54	254

E = Bare earth conductor.
D = Drain wire.

Temperature limits:
-10 to +80°C.

*Bending radius:
6 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.
7 core and above - White with Black numbers.

Should not be installed at temperatures below 0°C or above +40°C.



ENHANCED FIRE ALARM AND SECURITY WIRING CABLES

Plain annealed copper conductor, enhanced silicon rubber insulated, enhanced aluminium/polyester tape screen, tinned annealed copper earth wire, enhanced low smoke zero halogen outer sheath. Red or white. Manufactured to meet the Enhanced standard of BS5839-1 2002 +A2:2008 Clause 26.2e Enhanced and also the requirements of BS8434 - 2:2003 120 minutes and BS EN 50200 Class PH120. Fire resistant to BS7629-1:2008, BS6387:1994 clause 11 CWZ, halogen emissions to BS EN 50267-2-1:1999 and low smoke standard BS EN 61034-2:2005.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	1 Hole Clip Ref	Gland Ref
ENH2X1/5	1.5	1/1.38	2+E	110	8.0	20	32	251
ENH3X1/5	1.5	1/1.38	3+E	130	8.4	20	34	251
ENH4X1/5	1.5	1/1.38	4+E	160	9.5	20	37	251
ENH2X2/5	2.5	1/1.78	2+E	160	9.0	20	34	252
ENH3X2/5	2.5	1/1.78	3+E	200	10.5	20	40	252
ENH4X2/5	2.5	1/1.78	4+E	250	11.7	20	43	252
ENH2x4	4.0	7/0.85	2+E	260	11.3	20	43	252
ENH3x4	4.0	7/0.85	3+E	315	12.1	25	47	254
ENH4x4	4.0	7/0.85	4+E	380	13.3	25	51	254

E = Bare earth conductor.

Temperature limits:
-40 to +90°C.

*Bending radius:
6 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.

Should not be installed at temperatures below 0°C or above +40°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TRI-RATED EQUIPMENT WIRES

Plain annealed stranded circular copper conductors, circular high temperature PVC outer sheath. UL & CSA approved also to BS6231. 600/1000 volts grade. Flame propagation to BS EN 50265 and IEC 60332-1.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
TRI0/5	0.5	16/0.20	12	2.7	-
TRI/75	0.75	24/0.20	15	2.9	-
TRI1	1.0	32/0.20	18	3.1	-
TRI1/5	1.5	30/0.25	23	3.3	20/16
TRI2/5	2.5	50/0.25	34	3.7	20/16
TRI4	4.0	56/0.30	50	4.3	20/16
TRI6	6.0	84/0.30	71	4.9	20/16
TRI10	10.0	80/0.40	123	6.3	20/16
TRI16	16.0	126/0.40	207	9.0	20S
TRI25	25.0	196/0.40	303	10.4	20S
TRI35	35.0	276/0.40	412	11.9	20
TRI50	50.0	396/0.40	607	14.7	25
TRI70	70.0	360/0.50	837	16.8	25
TRI95	95.0	475/0.50	1079	18.8	25
TRI120	120.0	608/0.50	1280	19.9	32
BI150	150	756/0.50	1619	22.9	32
BI185	185	925/0.50	1948	24.1	32
BI240	240	1221/0.50	2518	28.6	40
BI300	300	1525/0.50	3112	32.2	50S
BI400	400	2013/0.50	4051	36	50

Temperature limits:
-30 to +105°C.

*Bending radius:
6 x Overall diameter.

Standard colours available:
0.5mm² - 2.5mm² - Brown, Black, Grey, Blue, Green/Yellow, Red, Yellow, White, Orange, Pink, Violet.

4.0mm² - 16mm² - Brown, Black, Grey, Blue, Green/Yellow, Red, Yellow, White.

25.0mm² - 120mm² - Brown, Black, Grey, Blue, Green/Yellow, Red, Yellow.

150mm² - Black, Green/Yellow.
185mm² - 400mm² - Black.

Should not be installed at temperatures below 0°C.



2491B/6701B LSZH FLEXIBLE SINGLE CORES

Flexible plain annealed copper conductor, low smoke zero halogen (LSZH) outer sheath to BS7211. 0.75mm/1.0mm rated at 300/500 volts grade BS EN 50525-3-41, harmonised code HO5Z-K. 1.5mm to 240mm rated at 450/750 volts grade, harmonised code HO7Z-K. Flame propagation to BS EN 50266-1:2001 (formerly BS4066:PT1).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)
2491B/75	0.75	24/0.20	1	12	2.12
2491B1	1.0	32/0.20	1	14	2.48
2491B1/5	1.5	30/0.25	1	20	2.98
2491B2/5	2.5	50/0.25	1	30	3.63
2491B4	4.0	56/0.25	1	45	4.23
2491B6	6.0	84/0.30	1	65	4.83
6701B10	10.0	80/0.40	1	110	6.10
6701B16	16.0	126/0.40	1	160	7.10
6701B25	25.0	196/0.40	1	250	8.70
6701B35	35.0	276/0.40	1	340	9.90
6701B50	50.0	396/0.40	1	480	11.60
6701B70	70.0	360/0.50	1	670	13.30
6701B95	95.0	475/0.50	1	890	15.20
6701B120	120.0	608/0.50	1	1140	17.00
6701B150	150.0	756/0.50	1	1410	18.90
6701B185	185.0	925/0.50	1	1710	21.00
6701B240	240.0	1221/0.50	1	2270	23.90

Temperature limits:
- 15 to + 90°C

*Bending radius:
up to 35mm² - 3 x Overall Diameter
50mm² and above - 4 x Overall diameter.

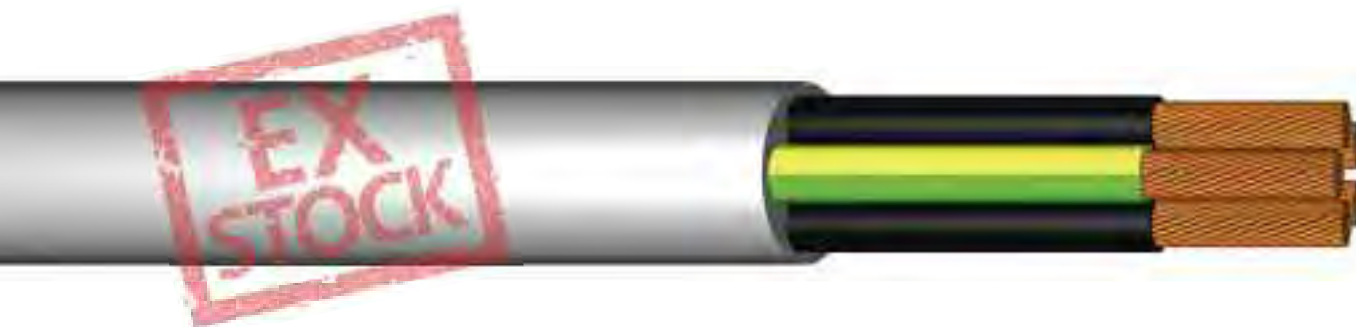
Standard colours available:
1.5mm to 6mm - Black, Blue, Brown, Grey, Orange, White, Red, Yellow, Green/Yellow.

10mm² - 240mm² - Black, Blue, Brown, Grey.

Should not be installed at temperatures below 0°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE YY CONTROL CABLES

Plain annealed flexible copper conductors, PVC insulated, PVC sheathed. Grey. 300/500 volts grade, generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
YY2X/75	0.75	24/0.20	2	46	5.6	20/16
YY3X/75	0.75	24/0.20	3	52	5.7	20/16
YY4X/75	0.75	24/0.20	4	64	6.2	20/16
YY5X/75	0.75	24/0.20	5	77	7	20/16
YY7X/75	0.75	24/0.20	7	95	7.3	20/16
YY12X/75	0.75	24/0.20	12	155	9.5	20S
YY18X/75	0.75	24/0.20	18	221	11.1	20
YY25X/75	0.75	24/0.20	25	305	13.2	20
YY34X/75	0.75	24/0.20	34	460	16.7	25
YY50X/75	0.75	24/0.20	50	578	18.4	25
YY65X/75	0.75	24/0.20	65	850	23.5	32
YY2X1	1.0	32/0.20	2	55	6	20/16
YY3X1	1.0	32/0.20	3	66	6.1	20/16
YY4X1	1.0	32/0.20	4	82	6.7	20/16
YY5X1	1.0	32/0.20	5	93	7.5	20/16
YY7X1	1.0	32/0.20	7	121	8.1	20S
YY12X1	1.0	32/0.20	12	200	11	20S
YY18X1	1.0	32/0.20	18	318	12.7	20
YY25X1	1.0	32/0.20	25	415	15.5	25
YY34X1	1.0	32/0.20	34	575	18.3	25
YY41X1	1.0	32/0.20	41	665	19	25
YY50X1	1.0	32/0.20	50	815	21.3	32
YY65X1	1.0	32/0.20	65	1055	25.6	32
YY2X1/5	1.5	30/0.25	2	69	6.6	20/16
YY3X1/5	1.5	30/0.25	3	87	7	20/16
YY4X1/5	1.5	30/0.25	4	110	7.6	20/16
YY5X1/5	1.5	30/0.25	5	124	8.1	20S
YY7X1/5	1.5	30/0.25	7	176	9.2	20S
YY8X1/5	1.5	30/0.25	8	230	11.2	20
YY10X1/5	1.5	30/0.25	10	265	12.4	20
YY12X1/5	1.5	30/0.25	12	290	13.1	20
YY18X1/5	1.5	30/0.25	18	424	14.8	25
YY25X1/5	1.5	30/0.25	25	565	18	25
YY34X1/5	1.5	30/0.25	34	775	21	32
YY50X1/5	1.5	30/0.25	50	1095	24.2	32
YY65X1/5	1.5	30/0.25	65	1390	28.8	40

Temperature limits:
-5 to +70°C.

*Bending radius:
Static - 6 x overall diameter.
Flexing - 15 x overall diameter.

Core identification:
2 core - Black with White numbers.
3 core and above - Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.
7 core - Blue, Brown, Black, Grey, White, Red, Green/Yellow.

Should not be installed at temperatures below -5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE YY CONTROL CABLES

Plain annealed flexible copper conductors, PVC insulated, PVC sheathed. Grey. 300/500 volts grade, generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
YY2X2/5	2.5	50/0.25	2	106	7.8	20/16
YY3X2/5	2.5	50/0.25	3	126	8.1	20S
YY4X2/5	2.5	50/0.25	4	159	8.9	20S
YY5X2/5	2.5	50/0.25	5	178	9.7	20S
YY7X2/5	2.5	50/0.25	7	272	11.1	20S
YY8X2/5	2.5	50/0.25	8	350	13.5	20
YY12X2/5	2.5	50/0.25	12	403	13.8	20
YY18X2/5	2.5	50/0.25	18	597	17.5	25
YY25X2/5	2.5	50/0.25	25	885	22	32
YY34X2/5	2.5	50/0.25	34	1220	25.8	32
YY3X4	4.0	56/0.30	3	201	10.4	20S
YY4X4	4.0	56/0.30	4	283	10.7	20S
YY5X4	4.0	56/0.30	5	293	12.4	20
YY7X4	4.0	56/0.30	7	413	14	25
YY3X6	6.0	84/0.30	3	273	11.5	20
YY4X6	6.0	84/0.30	4	352	12.8	20
YY5X6	6.0	84/0.30	5	415	14.6	25
YY7X6	6.0	84/0.30	7	537	15.2	25
YY3X10	10.0	80/0.40	3	466	15.3	25
YY4X10	10.0	80/0.40	4	631	16.5	25
YY5X10	10.0	80/0.40	5	720	18.6	25
YY3X16	16.0	126/0.40	3	697	18.4	25
YY4X16	16.0	126/0.40	4	767	19.9	32
YY5X16	16.0	126/0.40	5	1151	22.4	32
YY3X25	25.0	196/0.40	3	930	21.5	32
YY4X25	25.0	196/0.40	4	1150	22.5	32
YY5X25	25.0	196/0.40	5	1679	27.9	40
YY4X35	35.0	276/0.40	4	1970	29	40
YY5X35	35.0	276/0.40	5	2206	31.3	40
YY4X50	50.0	396/0.40	4	2700	34	50S

Temperature limits:
-5 to +70°C.

*Bending radius:
Static - 6 x overall diameter.
Flexing - 15 x overall diameter.

Core identification:
2 core - Black with White numbers.
3 core and above - Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.
7 core - Blue, Brown, Black, Grey, White, Red, Green/Yellow.

Should not be installed at temperatures below -5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE SY CONTROL CABLES

Plain annealed flexible copper conductors, PVC insulated, extruded PVC bedding, galvanised steel wire braid armour, transparent PVC outer sheath. 300/500 volts grade generally to BS6500 and VDE 0250 class 5.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
SY2X/75	0.75	24/0.20	2	78	7.1	20/16
SY3X/75	0.75	24/0.20	3	91	7.6	20/16
SY4X/75	0.75	24/0.20	4	104	8.3	20/16
SY5X/75	0.75	24/0.20	5	121	8.9	20/16
SY7X/75	0.75	24/0.20	7	135	9.5	20/16
SY12X/75	0.75	24/0.20	12	214	11.9	20S
SY18X/75	0.75	24/0.20	18	293	13.2	20S
SY25X/75	0.75	24/0.20	25	418	13.7	20S
SY34X/75	0.75	24/0.20	34	610	19	20
SY2X1	1.0	32/0.20	2	85	7.7	20/16
SY3X1	1.0	32/0.20	3	95	8.2	20/16
SY4X1	1.0	32/0.20	4	120	9	20/16
SY5X1	1.0	32/0.20	5	123	9.2	20/16
SY7X1	1.0	32/0.20	7	171	10.1	20/16
SY12X1	1.0	32/0.20	12	276	12.9	20S
SY18X1	1.0	32/0.20	18	382	15	20
SY25X1	1.0	32/0.20	25	437	17.9	20
SY34X1	1.0	32/0.20	34	556	20	20
SY50X1	1.0	32/0.20	50	955	23.7	25
SY2X1/5	1.5	30/0.25	2	100	8.2	20/16
SY3X1/5	1.5	30/0.25	3	143	8.6	20/16
SY4X1/5	1.5	30/0.25	4	170	9.3	20/16
SY5X1/5	1.5	30/0.25	5	173	10	20/16
SY7X1/5	1.5	30/0.25	7	198	10.7	20/16
SY12X1/5	1.5	30/0.25	12	341	13.8	20S
SY18X1/5	1.5	30/0.25	18	490	16.4	20
SY25X1/5	1.5	30/0.25	25	606	19.2	20
SY34X1/5	1.5	30/0.25	34	835	21.6	25
SY50X1/5	1.5	30/0.25	50	1046	23.8	25
SY2X2/5	2.5	50/0.25	2	177	9.8	20/16
SY3X2/5	2.5	50/0.25	3	190	9.9	20/16
SY4X2/5	2.5	50/0.25	4	240	10.8	20/16
SY5X2/5	2.5	50/0.25	5	247	11.5	20S
SY7X2/5	2.5	50/0.25	7	327	13	20S
SY12X2/5	2.5	50/0.25	12	502	16.9	20
SY18X2/5	2.5	50/0.25	18	740	19.8	20
SY25X2/5	2.5	50/0.25	25	1065	23.2	25
SY34X2/5	2.5	50/0.25	34	1126	24.3	25

Temperature limits:
-5 to +70°C.

*Bending radius:
Static - 10 x overall diameter.
Flexing - 20 x overall diameter.

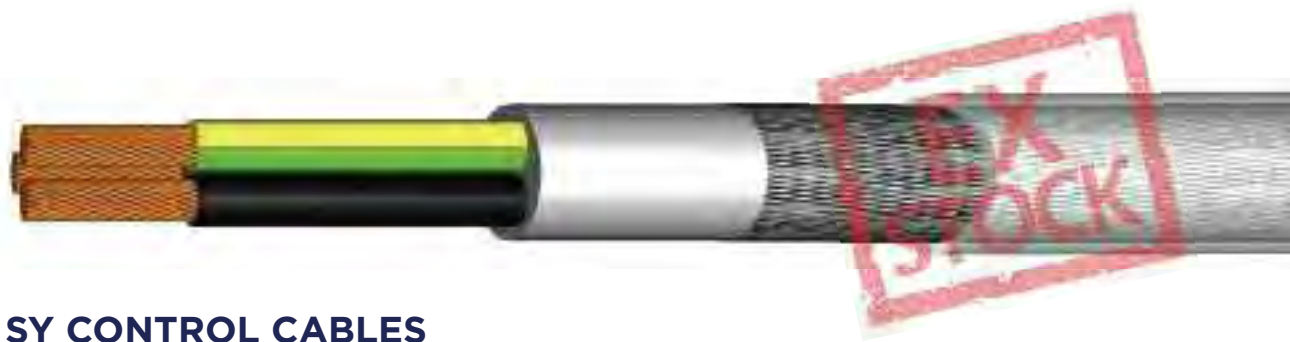
Core identification:
2 core - Black with White numbers.
3 core and above - Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.

Should not be installed at temperatures below -5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE SY CONTROL CABLES

Plain annealed flexible copper conductors, PVC insulated, extruded PVC bedding, galvanised steel wire braid armour, transparent PVC outer sheath. 300/500 volts grade generally to BS6500 and VDE 0250 class 5.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
SY3X4	4.0	56/0.30	3	323	12.2	20S
SY4X4	4.0	56/0.30	4	354	13.4	20S
SY5X4	4.0	56/0.30	5	392	15	20
SY7X4	4.0	56/0.30	7	486	16	20
SY3X6	6.0	84/0.30	3	343	13.4	20S
SY4X6	6.0	84/0.30	4	458	14.6	20S
SY5X6	6.0	84/0.30	5	572	16.7	20
SY7X6	6.0	84/0.30	7	640	18	20
SY3X10	10.0	80/0.40	3	563	17.3	20
SY4X10	10.0	80/0.40	4	776	19.1	20
SY5X10	10.0	80/0.40	5	855	21	25
SY3X16	16.0	126/0.40	3	813	20.5	25
SY4X16	16.0	126/0.40	4	900	22.4	25
SY5X16	16.0	126/0.40	5	1258	25.2	25
SY4X25	25.0	196/0.40	4	1597	28.2	32
SY5X25	25.0	196/0.40	5	2007	31.2	32
SY4X35	35.0	276/0.40	4	2046	31.3	40
SY5X35	35.0	276/0.40	5	2524	34.3	40
SY4X50	50.0	396/0.40	4	2888	37	40
SY4X70	70.0	356/0.50	4	4015	41.2	50S
SY4X95	95.0	485/0.50	4	5176	47.8	50

Temperature limits:
-5 to +70°C.

*Bending radius:
Static - 10 x overall diameter.
Flexing - 20 x overall diameter.

Core identification:
2 core - Black with White numbers.
3 core and above - Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.

Should not be installed at temperatures below -5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE CY CONTROL CABLES

Plain annealed flexible copper conductors, PVC insulated, mylar taped, tinned copper wire braid screen, PVC outer sheath. Grey. 300/500 volts grade generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm) Brass A2
CY2X/5	0.5	16/0.20	2	41	5.0	20/16
CY3X/5	0.5	16/0.20	3	50	5.2	20/16
CY4X/5	0.5	16/0.20	4	66	6.2	20/16
CY5X/5	0.5	16/0.20	5	79	7.0	20/16
CY7X/5	0.5	16/0.20	7	102	7.2	20/16
CY2X/75	0.75	24/0.20	2	43	5.5	20/16
CY3X/75	0.75	24/0.20	3	52	5.8	20/16
CY4X/75	0.75	24/0.20	4	68	6.5	20/16
CY5X/75	0.75	24/0.20	5	80	7.1	20/16
CY7X/75	0.75	24/0.20	7	103	7.6	20/16
CY12X/75	0.75	24/0.20	12	161	9.9	20S
CY18X/75	0.75	24/0.20	18	238	11.7	20
CY25X/75	0.75	24/0.20	25	316	13.9	20
CY2X1	1.0	32/0.20	2	53	6.3	20/16
CY3X1	1.0	32/0.20	3	64	6.4	20/16
CY4X1	1.0	32/0.20	4	84	7.2	20/16
CY5X1	1.0	32/0.20	5	100	7.8	20/16
CY7X1	1.0	32/0.20	7	125	8.5	20/16
CY12X1	1.0	32/0.20	12	209	11.3	20S
CY18X1	1.0	32/0.20	18	308	13.3	20
CY25X1	1.0	32/0.20	25	420	16.23	25
CY34X1	1.0	32/0.20	34	650	19.5	25
CY2X1/5	1.5	30/0.25	2	61	6.5	20/16
CY3X1/5	1.5	30/0.25	3	78	6.9	20/16
CY4X1/5	1.5	30/0.25	4	104	7.7	20/16
CY5X1/5	1.5	30/0.25	5	128	8.6	20S
CY7X1/5	1.5	30/0.25	7	159	9.2	20
CY12X1/5	1.5	30/0.25	12	281	12.7	25
CY18X1/5	1.5	30/0.25	18	396	14.7	25
CY25X1/5	1.5	30/0.25	25	534	17.49	25
CY34X1/5	1.5	30/0.25	34	720	19.89	32
CY42X1/5	1.5	30/0.25	42	1015	23.8	25
CY2X2/5	2.5	50/0.25	2	102	8	20/16
CY3X2/5	2.5	50/0.25	3	117	8.4	20/16
CY4X2/5	2.5	50/0.25	4	168	9.19	20S
CY5X2/5	2.5	50/0.25	5	199	10.3	20S
CY7X2/5	2.5	50/0.25	7	252	11.2	20S
CY12X2/5	2.5	50/0.25	12	500	16.8	25
CY2X4	4.0	56/0.30	2	165	10.5	20S
CY3X4	4.0	56/0.30	3	186	10.3	20S
CY4X4	4.0	56/0.30	4	239	11.8	20S
CY5X4	4.0	56/0.30	5	301	13	20S
CY4X6	6.0	84/0.30	4	327	12.9	20S
CY4X10	10.0	80/0.40	4	553	17.2	25
CY4X16	16.0	126/0.40	4	846	21	32

Temperature limits:
Static - -20 to +80°C.
Flexing - -5 to +70°C.

*Bending radius:
Static - 6 x overall diameter.
Flexing - 15 x overall diameter.

Core identification:
2 core - Black with White numbers.
3 core and above - Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.
5 core - Blue, Brown, Black, Grey, Green/Yellow.

Should not be installed at temperatures below -5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE YY CONTROL CABLES LSZH

Plain annealed flexible copper conductors, low smoke and zero halogen (LSZH) insulated, low smoke and zero halogen (LSZH) sheathed. Grey. 300/500 volts grade, generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
YY2X/75LSF	0.75	24/0.20	2	46	5.6	20/16
YY3X/75LSF	0.75	24/0.20	3	52	5.7	20/16
YY4X/75LSF	0.75	24/0.20	4	64	6.2	20/16
YY5X/75LSF	0.75	24/0.20	5	77	7	20/16
YY7X/75LSF	0.75	24/0.20	7	95	7.3	20/16
YY12X/75LSF	0.75	24/0.20	12	155	9.5	20S
YY25X/75LSF	0.75	24/0.20	23	305	13.2	20
YY2X1LSF	1.0	32/0.20	2	55	6	20/16
YY3X1LSF	1.0	32/0.20	3	66	6.1	20/16
YY4X1LSF	1.0	32/0.20	4	82	6.7	20/16
YY5X1LSF	1.0	32/0.20	5	93	7.5	20/16
YY2X1/5LSF	1.5	30/0.25	2	69	6.6	20/16
YY3X1/5LSF	1.5	30/0.25	3	87	7	20/16
YY4X1/5LSF	1.5	30/0.25	4	110	7.6	20/16
YY5X1/5LSF	1.5	30/0.25	5	124	8.1	20S
YY7X1/5LSF	1.5	30/0.25	7	176	9.2	20S
YY12X1/5LSF	1.5	30/0.25	12	290	13.1	20
YY18X1/5LSF	1.5	30/0.25	18	424	14.8	25
YY25X1/5LSF	1.5	30/0.25	25	565	18	25
YY34X1/5LSF	1.5	30/0.25	34	775	21	32
YY2X2/5LSF	2.5	50/0.25	2	106	7.8	20/16
YY3X2/5LSF	2.5	50/0.25	3	126	8.1	20S
YY4X2/5LSF	2.5	50/0.25	4	159	8.9	20S
YY5X2/5LSF	2.5	50/0.25	5	178	9.7	20S
YY7X2/5LSF	2.5	50/0.25	7	272	11.1	20
YY3X4LSF	4.0	56/0.30	3	201	10.4	20S
YY4X4LSF	4.0	56/0.30	4	283	10.7	20S
YY5X4LSF	4.0	56/0.30	5	293	12.4	20
YY7X4LSF	4	56/0.30	7	413	14	25
YY3X6LSF	6.0	84/0.30	3	273	11.5	20
YY4X6LSF	6.0	84/0.30	4	352	12.8	20
YY5X6LSF	6.0	84/0.30	5	415	14.6	25
YY3X10LSF	10.0	80/0.40	3	466	15.3	25
YY4X10LSF	10.0	80/0.40	4	631	16.5	25
YY5X10LSF	10.0	80/0.40	5	720	18.6	25
YY3X16LSF	16.0	126/0.40	3	697	18.4	25
YY4X16LSF	16.0	126/0.40	4	767	19.9	32
YY5X16LSF	16.0	126/0.40	5	1151	22.4	32
YY3X25LSF	25.0	196/0.40	3	930	21.5	32

Temperature limits:

-5 to 70°C.

*Bending radius:

Static - 6 x Overall Diameter

Flexible - 15 x Overall Diameter.

Core identification:

2 Core - Black with White numbers.

3 Core and above
Black with White numbers plus Green/Yellow.

Also available with coloured cores as follows:

2 core - Blue, Brown.

3 core - Blue, Brown, Green/Yellow.

4 core - Blue, Brown, Black, Green/Yellow alternatively as per Cenelec HD 308 four core is available in an alternative core identification - brown, black, grey, green/yellow.

5 core - Blue, Brown, Black, Grey, Green/Yellow.

Should not be installed at temperatures below -5°C.

TYPE CY CONTROL CABLES LSZH

Plain annealed flexible copper conductors, low smoke and zero halogen (LSZH) insulated, mylar taped, tinned copper wire braid, low smoke and zero halogen (LSZH) outer sheath. Grey. 300/500 volts grade, generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
CY2X/75LSF	0.75	24/0.20	2	43	5.5	20/16
CY3X/75LSF	0.75	24/0.20	3	52	5.8	20/16
CY4X/75LSF	0.75	24/0.20	4	68	6.5	20/16
CY5X/75LSF	0.75	24/0.20	5	80	7.1	20/16
CY7X/75LSF	0.75	24/0.2	7	103	7.6	20/16
CY2X1/5LSF	1.5	30/0.25	2	61	6.5	20/16
CY3X1/5LSF	1.5	30/0.25	3	78	6.9	20/16
CY4X1/5LSF	1.5	30/0.25	4	104	7.7	20/16
CY5X1/5LSF	1.5	30/0.25	5	128	8.6	20/16
CY12X1/5LSF	1.5	30/0.25	12	281	12.7	25
CY18X1/5LSF	1.5	30/0.25	18	396	14.7	25
CY25X1/5LSF	1.5	30/0.25	25	534	17.49	25
CY34X1/5LSF	1.5	30/0.25	34	720	19.89	32
CY2X2/5LSF	2.5	50/0.25	2	102	8.0	20/16
CY3X2/5LSF	2.5	50/0.25	3	117	8.4	20/16
CY4X2/5LSF	2.5	50/0.25	4	168	9.19	20S

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



TYPE SY CONTROL CABLES LSZH

Plain annealed flexible copper conductors, low smoke and zero halogen (LSZH) insulated, low smoke and zero halogen (LSZH) sheathed. Black. 300/500 volts grade generally to BS6500 and VDE 0250.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No Of Cores	Weight Kg/Km	Overall Diameter (mm)	Gland Size (mm)
SY3X1/5LSF	1.5	30/0.25	3	143	8.6	20/16
SY4X1/5LSF	1.5	30/0.25	4	170	9.3	20/16
SY3X2/5LSF	2.5	50/0.25	3	190	9.9	20/16
SY4X2/5LSF	2.5	50/0.25	4	240	10.8	20/16
SY3X4LSF	4	56/0.30	3	323	12.2	20s
SY3X6LSF	6	84/0.30	3	343	13.4	20s

Temperature limits:
- 5 to + 70°C

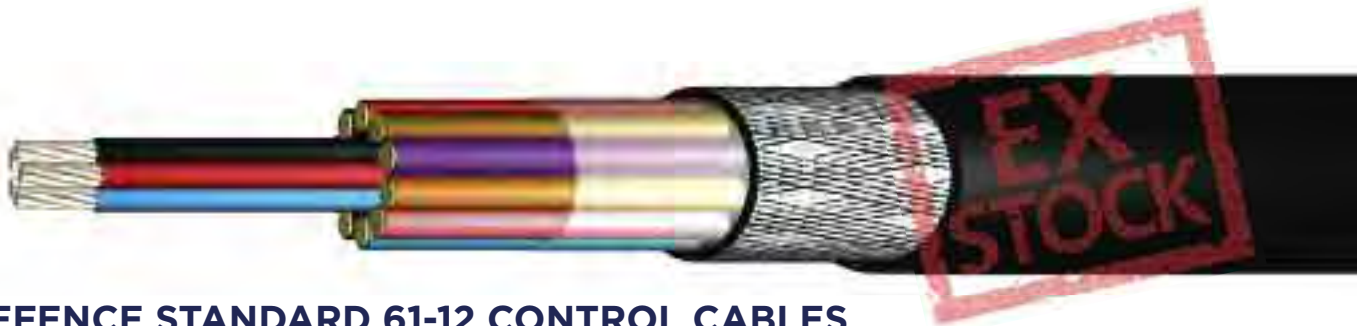
Bending radius:
Static - 10 x overall diameter.
Flexing - 20 x overall diameter.

Core identification
3 core and above - black with white numbers plus green/yellow also available with coloured cores as follows:
3 core - Blue, Brown, Green/Yellow
4 core - Blue, Brown, Black, Green/Yellow alternatively as per cenelec HD308 four core is available in an alternative core identification - brown, black, grey, green/yellow.

Should not be installed at temperatures below - 5°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



DEFENCE STANDARD 61-12 CONTROL CABLES

Tinned annealed flexible copper conductors, PVC insulated, non-hygroscopic binder tape, tinned annealed copper wire braid screen, PVC outer sheath. Black. 440 volts grade. To Ministry of Defence Standard DEF 61-12 (Part 4 for 7/0.2 conductors, Part 5 for 16/0.2 conductors). Flame propagation to BS4066 PT1 and IEC 332 PT1.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
722C	0.22	7/0.20	2	23	4.1	16
723C	0.22	7/0.20	3	27	4.3	16
724C	0.22	7/0.20	4	32	4.6	16
726C	0.22	7/0.20	6	55	5.9	16
728C	0.22	7/0.20	8	69	6.0	16
7212C	0.22	7/0.20	12	83	7.2	16
7218C	0.22	7/0.20	18	110	8.5	20
7225C	0.22	7/0.20	25	150	9.8	20
7236C	0.22	7/0.20	36	200	11.2	20
7250C	0.22	7/0.20	50	270	13.0	25
7260C	0.22	7/0.20	60	310	13.8	25
1622C	0.50	16/0.20	2	69	6.9	16
1623C	0.50	16/0.20	3	79	7.2	16
1624C	0.50	16/0.20	4	92	7.7	16
1626C	0.50	16/0.20	6	120	8.7	20
1628C	0.50	16/0.20	8	146	8.9	20
16210C	0.50	16/0.20	**10	190	11.8	20
16212C	0.50	16/0.20	12	198	11.0	20
16218C	0.50	16/0.20	18	250	12.5	20
16225C	0.50	16/0.20	25	320	14.6	25
16236C	0.50	16/0.20	36	450	16.7	25
16250C	0.50	16/0.20	50	564	18.5	32
16260C	0.50	16/0.20	60	670	20.3	32

** Laid up in a pair configuration.

Temperature limits: -55 to +70°C.

*Bending radius: 6 x overall diameter.

Core identification: See colour chart on page 97.

Should not be installed at temperatures below 0°C.

Tinned annealed flexible copper conductors, low smoke and zero halogen (LSZH) insulation, non-hygroscopic binder tape, tinned annealed copper wire braid screen, low smoke and zero halogen (LSZH) outer sheath. Black. 440 volt grade. Generally to ministry of Defence Standard DEF61-12 Part 5 LSF.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)
LSF1622C	0.50	16/0.20	2	69	6.9	16
LSF1623C	0.5	16/0.20	3	79	7.2	16
LSF1624C	0.5	16/0.20	4	92	7.7	16
LSF1626C	0.5	16/0.20	6	120	8.7	20
LSF16212C	0.5	16/0.20	12	198	11.0	20
LSF16218C	0.5	16/0.20	18	250	12.5	20
LSF16225C	0.5	16/0.20	25	320	14.6	25

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



FLEXIBLE MAINS AND CONTROL CABLES HO7RN-F

Plain annealed flexible copper conductors, rubber insulated, heavy duty polychloroprene (PCP) outer sheath 450/750 volts grade. Black. Harmonised code type HO7RN-F. Flame propagation to EN 60332-1-2.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Mean Overall Diameter (mm)	
					Lower Limit	Upper Limit
3182P1	1.0	32/0.20	2	95	6.1	8.0
3183P1	1.0	32/0.20	3	115	6.5	8.5
3184P1	1.0	32/0.20	4	140	7.1	9.3
3182P1/5	1.5	30/0.25	2	132	7.6	9.8
3183P1/5	1.5	30/0.25	3	165	8.0	10.4
3184P1/5	1.5	30/0.25	4	200	9.0	11.6
3185P1/5	1.5	30/0.25	5	240	11.2	14.4
3187P1/5	1.5	30/0.25	7	385	14.6	18.2
3180/12P1/5	1.5	30/0.25	12	520	17.6	22.4
3180/19P1/5	1.5	30/0.25	19	700	21	26
3180/27P1/5	1.5	30/0.25	27	920	25.3	30
3180/37P1/5	1.5	30/0.25	37	1260	29	34.2
3182P2/5	2.5	50/0.25	2	193	9.0	11.6
3183P2/5	2.5	50/0.25	3	235	9.6	12.4
3184P2/5	2.5	50/0.25	4	290	10.7	13.8
3185P2/5	2.5	50/0.25	5	345	13.3	17.0
3187P2/5	2.5	50/0.25	7	520	17.2	21.0
3180/12P2/5	2.5	50/0.25	12	810	20.6	26.2
3181P4	4	50/0.25	1	94	7.2	9
3182P4	4.0	56/0.30	2	275	11.8	15.1
3183P4	4.0	56/0.30	3	320	12.7	16.2
3184P4	4.0	56/0.30	4	395	14.0	17.9
3185P4	4.0	56/0.30	5	485	15.6	19.9
3187P4	4	56/0.30	7	773	19.8	24.4
6381P6	6	84/0.30	1	130	7.9	9.8
6382P6	6.0	84/0.30	2	350	13.1	16.8
6383P6	6.0	84/0.30	3	495	14.1	18.0
6384P6	6.0	84/0.30	4	610	15.7	20.0
6385P6	6.0	84/0.30	5	760	17.5	22.9
6387P6	6.0	84/0.30	7	904	21.6	26.9
6381P10	10	80/0.40	1	230	9.5	11.9
6382P10	10	80/0.40	2	640	17.7	22.6
6383P10	10	80/0.40	3	880	19.1	24.2
6384P10	10	80/0.40	4	1060	20.9	26.5
6385P10	10	80/0.40	5	1300	22.9	29.1
6381P16	16	126/0.40	1	320	10.8	13.4
6382P16	16	126/0.40	2	850	20.2	25.7
6383P16	16	126/0.40	3	1090	21.8	27.6
6384P16	16	126/0.40	4	1345	23.8	30.1
6385P16	16	126/0.40	5	1680	26.4	33.3
6381P25	25	196/0.40	1	450	12.7	15.8
6382P25	25	196/0.40	2	1210	24.3	30.7
6383P25	25	196/0.40	3	1394	26.1	33.0
6384P25	25	196/0.40	4	1995	28.9	36.6
6385P25	25	196/0.40	5	2470	32.0	40.4
6381P35	35	276/0.40	1	605	14.3	17.9
6383P35	35	276/0.40	3	1850	29.3	37.1
6384P35	35	276/0.40	4	2645	32.5	41.1
6385P35	35	276/0.40	5	2930	34.0	43.0
6381P50	50	396/0.40	1	825	16.5	20.6
6383P50	50	396/0.40	3	2890	34.1	42.9
6384P50	50	396/0.40	4	3635	37.7	47.5
6385P50	50	396/0.40	5	4450	39.03	49.18

Temperature limits:

-25 to +60°C.

Can be supplied suitable for up to 90°C upon special request.

*Bending radius:

Static - 6 x overall diameter.

Flexing - 15 x overall diameter.

Core identification:

2 core - Blue, Brown.

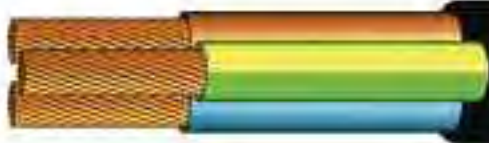
3 core - Blue, Brown, Green/Yellow.

4 core - Grey, Black, Brown, Green/Yellow.

5 core - Grey, Black, Brown, Blue, Green/Yellow.

6 core and above - Black with White numbers plus Green/Yellow.

Should not be installed at temperatures below 0°C.



FLEXIBLE MAINS AND CONTROL CABLES HORN-F

Plain annealed flexible copper conductors, rubber insulated, heavy duty polychloroprene (PCP) outersheath 450/750 volts grade. Black. Harmonized code type HO7RN-F. Flame propagation to EN 60332-1-2.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Mean Overall Diameter (mm)	
					Lower Limit	Upper Limit
6381P70	70	360/0.50	1	1090	18.6	23.3
6383P70	70	360/0.50	3	3850	38.4	48.3
6384P70	70	360/0.50	4	4830	42.7	54.0
6385P70	70	360/0.50	5	5938	48.5	55.0
6381P95	95	475/0.50	1	1405	20.8	26.0
6383P95	95	475/0.50	3	4185	43.3	50
6384P95	95	475/0.50	4	6320	48.5	61.0
6381P120	120	608/0.50	1	1745	22.8	28.6
6383P120	120	608/0.50	3	5080	47.4	60.0
6384P120	120	608/0.50	4	6500	53.0	66.0
6381P150	150	756/0.50	1	1824	25.2	31.4
6381P185	185	925/0.50	1	2202	27.6	34.4
6381P240	240	1221/0.50	1	2847	30.6	38.3
6381P300	300	1525/0.50	1	3495	33.5	41.9
6381P400	400	2257/0.60	1	4880	45.5	56.5
6381P500	500	1769/0.60	1	5301	41.3	52.0
6381P630	630	2257/0.60	1	7460	45.5	56.5

Temperature limits:
-25 to +85°C.

*Bending radius:
Static - 6 x overall diameter.
Flexing - 15 x overall diameter.

Core identification:
2 core - Blue, Brown.
3 core - Blue, Brown, Green/Yellow.
4 core - Grey, Black, Brown, Green/Yellow.
5 core - Grey, Black, Brown, Blue, Green/Yellow.
6 core and above - Black with White numbers plus Green/Yellow.

Should not be installed at temperatures below 0°C..

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



MAINS AND CONTROL CABLES PVC

Stranded plain annealed copper conductors, XLPE insulated, PVC bedding, galvanised steel wire armour, PVC outer sheath. Black. 600/1000 volts grade to BS5467. Flame propagation to BS EN 60332.

Ccc Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	Single Cleat
XLPE2X1/5	1.5	7/0.53	2	234	11.06	20/16	0.5
XLPE3X1/5	1.5	7/0.53	3	271	11.54	20/16	0.5
XLPE4X1/5	1.5	7/0.53	4	306	12.26	20/16	0.5
XLPE5X1/5	1.5	7/0.53	5	356	13.23	20S	0.6
XLPE7X1/5	1.5	7/0.53	7	391	14.1	20S	0.6
XLPE8X1/5	1.5	7/0.53	8	501	16.7	20	0.7
XLPE10X1/5	1.5	7/0.53	10	650	18	20	0.8
XLPE12X1/5	1.5	7/0.53	12	657	18.3	20	0.8
XLPE19X1/5	1.5	7/0.53	19	863	20.78	25	0.9
XLPE27X1/5	1.5	7/0.53	27	1310	25.1	25	1.0
XLPE37X1/5	1.5	7/0.53	37	1590	27.5	32	1.1
XLPE48X1/5	1.5	7/0.53	48	1900	30	32	1.2
XLPE2X2/5	2.5	7/0.67	2	312	12.4	20S	0.5
XLPE3X2/5*	2.5	7/0.67	3	343	12.99	20S	0.6
XLPE4X2/5	2.5	7/0.67	4	392	13.86	20S	0.6
XLPE5X2/5	2.5	7/0.67	5	463	14.92	20S	0.6
XLPE7X2/5	2.5	7/0.67	7	509	15.96	20	0.8
XLPE10X2/5	2.5	7/0.67	10	850	20	25	0.8
XLPE12X2/5	2.5	7/0.67	12	861	21.11	25	0.9
XLPE19X2/5	2.5	7/0.67	19	1324	25.16	25	1.0
XLPE27X2/5	2.5	7/0.67	27	1760	30	32	1.2
XLPE37X2/5	2.5	7/0.67	37	2185	33	40	1.4
XLPE48X2/5	2.5	7/0.67	48	2800	36	40	1.6
XLPE2X4	4.0	7/0.85	2	373	13.38	20S	0.6
XLPE3X4*	4.0	7/0.85	3	421	14.05	20S	0.6
XLPE4X4	4.0	7/0.85	4	496	15.04	20	0.6
XLPE5X4	4.0	7/0.85	5	573	16.35	20	0.7
XLPE7X4	4.0	7/0.85	7	741	18.21	20	0.8
XLPE12X4	4.0	7/0.85	12	1255	24.24	25	1.0
XLPE19X4	4.0	7/0.85	19	1690	27.61	32	1.1
XLPE27X4	4.0	7/0.85	27	2250	32	32	1.4
XLPE2X6	6.0	7/1.04	2	450	14.38	20S	0.6
XLPE3X6*	6.0	7/1.04	3	515	15.14	20	0.7
XLPE4X6	6.0	7/1.04	4	696	17.03	20	0.7
XLPE5X6	6.0	7/1.04	5	808	18.39	20	0.8
XLPE7X6	6.0	7/1.04	7	1100	21.9	25	0.9
XLPE2X10	10.0	7/1.35	2	590	16.18	20	0.7
XLPE3X10*	10.0	7/1.35	3	781	17.76	20	0.8
XLPE4X10	10.0	7/1.35	4	927	19.09	25	0.8
XLPE5X10	10.0	7/1.35	5	1095	20.91	25	0.9
XLPE7X10	10.0	7/1.35	7	1500	25	25	1.0
XLPE2X16	16.0	7/1.70	2	893	19.06	25	0.8
XLPE3X16*	16.0	7/1.70	3	1059	20.35	25	0.9
XLPE4X16	16.0	7/1.70	4	1269	21.95	25	0.9
XLPE5X16	16.0	7/1.70	5	1679	25.19	25	1.1
XLPE7X16	16.0	7/1.70	7	2150	28.1	32	1.2

Temperature limits:
-15 to +90°C.

*Bending radius:
6 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.
5 core and above - up to 6mm² - White with Black numbers.

5 core - 10mm² and 16mm² - Brown, Black, Grey, Blue, Green/Yellow
1.5 & 2.5 - 2,3,4 core also available in white numbered cores to ESI 09-6

Should not be installed at temperatures below 0°C or above +60°C.

* Additionally these cables are stocked with Brown, Blue and Green/Yellow core identification.

WHOLESALE FACTS

"In 2011 we sold 13 million metres of booklet armoured cables."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



MAINS CABLES PVC

Stranded plain annealed copper conductors, XLPE insulated, PVC bedding, galvanised steel wire armour, PVC outer sheath. Black. 600/1000 volts grade to BS5467. Flame propagation to BS EN 60332.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat Size
6942X25	25	7/2.14	2	1050	20	25	0.8
6943X25	25	7/2.14	3	1500	23	25	1.0
6944X25	25	7/2.14	4	1800	25	32	1.0
6945X25	25	7/2.14	5	2200	29	32	1.2
6942X35	35	7/2.52	2	1400	22	25	0.9
6943X35	35	7/2.52	3	1800	26	32	1.1
6944X35	35	7/2.52	4	2200	28	32	1.2
6945X35	35	7/2.52	5	2800	33	40	1.4
6942X50	50	19/1.78	2	1750	25	32	1.0
6943X50	50	19/1.78	3	2250	28	32	1.2
6944X50	50	19/1.78	4	2850	31	32	1.4
6945X50	50	19/1.78	5	3850	38	40	1.6
6942X70	70	19/2.14	2	2200	28	32	1.2
6943X70	70	19/2.14	3	3000	32	32	1.4
6944X70	70	19/2.14	4	4100	37	40	1.6
6945X70	70	19/2.14	5	5100	43	50S	1.8
6942X95	95	19/2.52	2	3000	32	40	1.4
6943X95	95	19/2.52	3	4150	37	40	1.6
6944X95	95	19/2.52	4	5200	40	50S	1.8
6945X95	95	19/2.52	5	7700	52	50	TC9
6942X120	120	37/2.03	2	3600	35	40	1.4
6943X120	120	37/2.03	3	4950	40	50S	1.8
6944X120	120	37/2.03	4	6700	46	50	2.0
6942X150	150	37/2.25	2	4250	37	40	1.6
6943X150	150	37/2.25	3	6300	45	50	1.8
6944X150	150	37/2.25	4	7900	49	50	2.0
6942X185	185	37/2.52	2	5500	43	50	1.8
6943X185	185	37/2.52	3	7650	49	50	2.0
6944X185	185	37/2.52	4	9650	55	63S	TC9
6942X240	240	61/2.25	2	6900	48	50	2.0
6943X240	240	61/2.25	3	9650	56	63S	TC9
6944X240	240	61/2.25	4	12400	62	63	TC10
6942X300	300	61/2.52	2	8200	50	50	2.0
6943X300	300	61/2.52	3	11550	59	63	TC10
6944X300	300	61/2.52	4	14800	66	75S	TC11
6942X400	400	61/2.85	2	10100	56	63S	TC9
6943X400	400	61/2.85	3	14350	65	75S	TC11
6944X400	400	61/2.85	4	19300	75	75	TC12

Temperature limits:
-15 to +90°C.

*Bending radius:
8 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.
5 core - Brown, Black, Grey, Blue, Green/Yellow.

Should not be installed at temperatures below 0°C or above +60°C.

NB 5 CORE 95MM AND ABOVE ARE MANUFACTURED TO IEC60502-1

WHOLESALE FACTS

"One of our most popular cables is mains power cable of which we sell nearly 3,000,000 metres per year."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



MAINS AND CONTROL CABLES LSZH

Plain annealed stranded copper conductors, XLPE insulated, low smoke and zero halogen (LSZH) bedding, galvanised steel wire armour, low smoke and zero halogen (LSZH) outer sheath. Black. 600/1000 volts grade to BS6724. Acid gas emission to BS EN 50267 (IEC 60754-1), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Categories C & A; BS EN 50266, low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat Size
LSF2X1/5	1.5	7/0.53	2	260	11	20/16	0.5
LSF3X1/5	1.5	7/0.53	3	295	11.2	20/16	0.5
LSF4X1/5	1.5	7/0.53	4	350	12.5	20S	0.5
LSF5X1/5	1.5	7/0.53	5	362	12.9	20S	0.6
LSF7X1/5	1.5	7/0.53	7	398	13.7	20S	0.6
LSF10X1/5	1.5	7/0.53	10	650	18	20	0.8
LSF12X1/5	1.5	7/0.53	12	680	18	20	0.8
LSF19X1/5	1.5	7/0.53	19	885	20.6	25	0.9
LSF27X1/5	1.5	7/0.53	27	1310	25.1	32	1.0
LSF37X1/5	1.5	7/0.53	37	1590	27.5	32	1.1
LSF48X1/5	1.5	7/0.53	48	1958	31	32	1.4
LSF2X2/5	2.5	7/0.67	2	270	12.2	20S	0.5
LSF3X2/5	2.5	7/0.67	3	360	12.8	20S	0.6
LSF4X2/5	2.5	7/0.67	4	410	13.5	20S	0.6
LSF5X2/5	2.5	7/0.67	5	435	14.7	20	0.6
LSF7X2/5	2.5	7/0.67	7	520	15.6	20	0.7
LSF10x2/5	2.5	7/0.67	10	250	20	25	0.8
LSF12X2/5	2.5	7/0.67	12	905	21	25	0.9
LSF19X2/5	2.5	7/0.67	19	1360	25	32	1.0
LSF27X2/5	2.5	7/0.67	27	1760	30	32	1.2
LSF37X2/5	2.5	7/0.67	37	2185	33	40	1.4
LSF48X2/5	2.5	7/0.67	48	3003	37.3	40	1.6
LSF2X4	4.0	7/0.85	2	381	13.1	20S	0.6
LSF3X4	4.0	7/0.85	3	435	13.7	20S	0.6
LSF4X4	4.0	7/0.85	4	495	14.8	20	0.6
LSF5X4	4.0	7/0.85	5	583	16.35	20	0.7
LSF7X4	4.0	7/0.85	7	760	18.2	20	0.8
LSF12X4	4.0	7/0.85	12	1266	24.24	25	1.0
LSF19X4	4.0	7/0.85	19	1701	27.61	32	1.2
LSF27X4	4.0	7/0.85	27	2347	32.3	40	1.4
LSF2X6	6.0	7/1.04	2	405	14.1	20	0.6
LSF3X6	6.0	7/1.04	3	490	14.8	20	0.6
LSF4X6	6.0	7/1.04	4	670	17.3	20	0.7
LSF5X6	6.0	7/1.04	5	823	18.39	20	0.8
LSF7X6	6.0	7/1.04	7	1100	21.9	25	0.9
LSF2X10	10.0	7/1.35	2	600	16.1	20	0.7
LSF3X10	10.0	7/1.35	3	750	17.9	20	0.8
LSF4X10	10.0	7/1.35	4	885	19.3	25	0.8
LSF5X10	10.0	7/1.35	5	1106	20.91	25	0.9
LSF7X10	10.0	7/1.35	7	1500	25	25	1.0
LSF2X16	16.0	7/1.70	2	905	19	25	0.8
LSF3X16	16.0	7/1.70	3	990	20	25	0.8
LSF4X16	16.0	7/1.70	4	1195	22	25	0.9
LSF5X16	16.0	7/1.70	5	1695	25.19	25	1.0
LSF7X16	16.0	7/1.70	7	2150	28.1	32	1.2

Temperature limits:
-25 to +90°C.

*Bending radius:
6 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.
5 core and above - Up to 6mm² - White with Black numbers.
5 - 10mm² and 16mm² - Brown, Black, Grey, Blue, Green/Yellow.

1.5 & 2.5 - 2,3,4 core also available in white numbered cores to ESI 09-6.

Should not be installed at temperatures below 0°C or above +40°C.

WHOLESALE FACTS

"The biggest seller for Cleveland Cable is LSF booklet cable selling 7,000,000 metres a year."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



MAINS CABLES LSZH

Stranded plain annealed copper conductors, XLPE insulated, low smoke and zero halogen (LSZH) extruded bedding, galvanised steel wire armour, low smoke and zero halogen (LSZH) outer sheath. Black. 600/1000 volts grade to BS6724. Acid gas emission to BS EN 50267 (IEC 60754-1), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Categories C & A; BS EN 50266, low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat Size
LSF2X25	25	7/2.14	2	1050	20	25	0.8
LSF3X25	25	7/2.14	3	1500	23	25	1.0
LSF4X25	25	7/2.14	4	1800	25	32	1.0
LSF5X25	25	7/2.14	5	2200	29	32	1.2
LSF2X35	35	7/2.52	2	1400	22	25	0.9
LSF3X35	35	7/2.52	3	1800	26	32	1.1
LSF4X35	35	7/2.52	4	2200	28	32	1.2
LSF5X35	35	7/2.52	5	2800	33	40	1.4
LSF2X50	50	19/1.78	2	1750	25	32	1.0
LSF3X50	50	19/1.78	3	2250	28	32	1.2
LSF4X50	50	19/1.78	4	2850	31	32	1.4
LSF5X50	50	19/1.78	5	3850	38	40	1.6
LSF2X70	70	19/2.14	2	2200	28	32	1.2
LSF3X70	70	19/2.14	3	3000	32	32	1.4
LSF4X70	70	19/2.14	4	4100	37	40	1.6
LSF5X70	70	19/2.14	5	5100	43	50S	1.8
LSF2X95	95	19/2.52	2	3000	32	32	1.4
LSF3X95	95	19/2.52	3	4150	37	40	1.6
LSF4X95	95	19/2.52	4	5200	40	50S	1.6
LSF5X95	95	19/2.52	5	7700	52	50	TC9
LSF2X120	120	37/2.03	2	3600	35	40	1.4
LSF3X120	120	37/2.03	3	4950	40	50S	1.6
LSF4X120	120	37/2.03	4	6700	46	50	2.0
LSF5X120	120	37/2.03	5	9030	56.7	63S	TC9
LSF2X150	150	37/2.25	2	4250	37	40	1.6
LSF3X150	150	37/2.25	3	6300	45	50S	1.8
LSF4X150	150	37/2.25	4	7900	49	50	2.0
LSF5X150	150	37/2.25	5	10752	64.31	63	TC11
LSF2X185	185	37/2.52	2	5500	43	50S	1.8
LSF3X185	185	37/2.52	3	7650	49	50	2.0
LSF4X185	185	37/2.52	4	9650	55	63S	TC9
LSF5X185	185	37/2.52	5	11765	64.6	75S	TC11
LSF2X240	240	61/2.25	2	6900	48	50	2.0
LSF3X240	240	61/2.25	3	9650	56	63S	TC9
LSF4X240	240	61/2.25	4	12400	62	63	TC10
LSF5X240	240	61/2.25	5	15000	73.8	75	TC12
LSF2X300	300	61/2.52	2	8200	50	50	2.0
LSF3X300	300	61/2.52	3	11550	59	63	TC10
LSF4X300	300	61/2.52	4	14800	66	75S	TC11
LSF3X400	400	61/2.85	3	14350	65	75S	TC11
LSF4X400	400	61/2.85	4	19300	75	75	TC12

Temperature limits:
-25 to +90°C.

*Bending radius:
8 x overall diameter.

Core identification:
2 core - Brown, Blue.
3 core - Brown, Black, Grey.
4 core - Brown, Black, Grey, Blue.
5 core - Brown, Black, Grey, Blue, Green/Yellow.

Should not be installed at temperatures below 0°C or above +40°C.

**NB 5 CORE 95MM
AND ABOVE ARE
MANUFACTURED
TO IEC60502-1**

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



SINGLE CORE NON-ARMOURED MAINS CABLES PVC

Plain annealed stranded compacted circular copper conductor, single core, XLPE insulated, PVC outer sheath Black. 600/1000 volts grade to BS7889/97. Flame propagation to BS EN 60332.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)	Brass A2	Nylon A2	Nylon Cleat Size	Trefoil Cleat
6181X50	50	19/1.78	520	13.5	25	25	0.6	-
6181X70	70	19/2.14	720	15.5	25	25	0.7	-
6181X95	95	19/2.52	985	17.5	25	25	0.7	-
6181X120	120	37/2.03	1215	19	32	32	0.8	-
6181X150	150	37/2.25	1515	21.5	32	32	0.9	-
6181X185	185	37/2.52	1865	23.5	32	32	1.0	-
6181X240	240	61/2.25	2415	26.5	40	40	1.1	-
6181X300	300	61/2.52	3005	29	40	40	1.2	376AC04
6181X400	400	61/2.85	3810	32.5	50S	50	1.4	376AC06
6181X500	500	61/3.20	4890	37	50S	50	1.6	376AC09
6181X630	630	127/2.52	6355	42	50	63	1.8	376AC12
6181X800	800	127/2.85	8075	46	63S	-	2.0	376AC15
6181X1000	1000	127/3.20	9860	53	63	-	TC9	376AC19

Temperature limits:
-15 to +90°C.

*Bending radius: 8 x overall diameter.

Core identification:
Brown inner - Black outer.

Should not be installed at temperatures below 0°C or above +60°C.



FIXED WIRING AND MAINS CABLES

Stranded plain annealed compacted circular copper conductors, XLPE insulated, PVC bedding, aluminium wire armoured, PVC outer sheath. Black. 600/100 volts grade to BS5467. Flame propagation to BS EN 60332.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size Ali (mm)	Gland Size Brass A2 (mm)	Nylon Cleat Size	Trefoil Cleat
6941AX50	50.0	19/1.78	1	638	17.70	20	25	0.7	-
6941AX70	70.0	19/2.14	1	891	19.60	25	32	0.8	-
6941AX95	95.0	19/2.52	1	1166	21.50	25	32	0.9	-
6941AX120	120.0	37/2.03	1	1412	23.10	25	32	1.0	-
6941AX150	150.0	37/2.25	1	1800	26.00	32	40	1.1	-
6941AX185	185.0	37/2.52	1	2200	28.00	32	40	1.2	376AC04
6941AX240	240.0	61/2.25	1	2800	32.00	40	50S	1.4	376AC06
6941AX300	300.0	61/2.52	1	3400	33.00	40	50S	1.4	376AC06
6941AX400	400.0	61/2.85	1	4450	38.00	40	50	1.6	376AC10
6941AX500	500.0	61/3.2	1	5550	43.00	50S	63S	1.8	376AC13
6941AX630	630.0	127/2.52	1	7100	47.00	50	63S	2.0	376AC15
6941AX800	800.0	127/2.85	1	9200	55.00	63S	75S	TC9	376AC20
6941AX1000	1000.0	127/3.2	1	11270	58.80	63S	75S	TC10	376AC22

Temperature limits:
- 15 to + 90°C.

*Bending radius:
6 x Overall Diameter.

Core identification:
Brown inner - Black outer

Should not be installed at temperatures below 0°C or above +60°C.



SINGLE CORE NON-ARMoured MAINS CABLES LSZH

Plain annealed stranded compacted circular copper conductor, single core, XLPE insulated, low smoke and zero halogen (LSZH) outer sheath. Black. 600/1000 volts grade to BS6724. Acid gas emission to BS EN 50267 (IEC 60754-1), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Categories C & A; BS EN 50266, low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	Weight (Kg/Km)	Overall Diameter (mm)	Brass A2	Nylon A2	Nylon Cleat Size	Trefoil Cleat
6181B50	50	19/1.78	525	13	25	25	0.6	-
6181B70	70	19/2.14	730	15.5	25	25	0.7	-
6181B95	95	19/2.52	990	18	25	25	0.7	-
6181B120	120	37/2.03	1230	19.5	32	32	0.8	-
6181B150	150	37/2.25	1525	21.5	32	32	0.9	-
6181B185	185	37/2.52	1885	24	32	32	1.0	-
6181B240	240	61/2.25	2440	27	40	40	1.1	-
6181B300	300	61/2.52	3045	29.5	40	40	1.2	376AC04
6181B400	400	61/2.52	3855	33	50S	50	1.4	376AC06
6181B500	500	61/3.20	4950	37.5	50S	50	1.6	376AC09
6181B630	630	127/2.52	6345	42	50	63	1.8	376AC12
6181B800	800	127/2.85	8140	47.5	63S	-	2.0	376AC15
6181B1000	1000	127/3.20	9860	53	63	-	TC9	376AC19

Temperature limits:
-25 to +90°C.

*Bending radius:
6 x overall diameter.

Core identification:
Brown inner/Black outer.

Should not be installed at
temperatures below 0°C or
above +40°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



SINGLE CORE ARMoured MAINS CABLES LSZH

Stranded plain annealed compacted circular copper conductors, XLPE insulated, low smoke and zero halogen (LSZH) extruded bedding, aluminium wire armour, low smoke and zero halogen (LSZH) outer sheath. Black. 600/1000 volts grade to BS6724. Acid gas emission to BS EN 50267 (IEC 60754-1), smoke emission to BS EN 50268 (IEC 61034) and flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Categories C & A; BS EN 50266, low smoke and zero halogen (LSZH).

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter (mm)	Gland Size Cw Ali (mm)	Gland Size Brass A2 (mm)	Nylon Cleat Size	Trefoil Cleat
6941AB50	50.0	19/1.78	1	638	17.70	20	25	0.7	-
6941AB70	70.0	19/2.14	1	891	19.60	25	32	0.8	-
6941AB95	95.0	19/2.52	1	1166	21.50	25	32	0.9	-
6941AB120	120.0	37/2.03	1	1412	23.10	25	32	1.0	-
6941AB150	150.0	37/2.25	1	1800	26.00	32	40	1.1	-
6941AB185	185.0	37/2.52	1	2200	28.00	32	40	1.2	376AC04
6941AB240	240.0	61/2.25	1	2800	32.00	40	50S	1.4	376AC06
6941AB300	300.0	61/2.52	1	3400	33.00	40	50S	1.4	376AC06
6941AB400	400.0	61/2.85	1	4450	38.00	40	50	1.6	376AC10
6941AB500	500.0	61/3.2	1	5550	43.00	50S	63S	1.8	376AC13
6941AB630	630.0	127/2.52	1	7100	47.00	50	63S	2.0	376AC15
6941AB800	800.0	127/2.85	1	9200	55.00	63S	75S	TC9	376AC20
6941AB1000	1000.0	127/3.2	1	11270	58.80	63S	75S	TC10	376AC22

Temperature limits:
- 25 to + 90°C.

*Bending radius:
6 x Overall Diameter.

Core identification:
Brown inner - Black outer.

Should not be installed at
temperatures below 0°C or
above +40°C.

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.



SOLAR ENERGY CABLES

Electrolytic annealed tinned flexible copper conductor, halogen free thermosetting rubber insulation, type EI6 according to EN 50363-1 and table 4 of the TUV standard, halogen free thermosetting rubber outer sheath, type EM8 according to EN 50363-1 and table 4 of the TUV standard. Black.

CCC Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (Kg/Km)	Overall Diameter
SOLAR1X1/5BK	1.5	29/0.25	1	40	4.90
SOLAR1X2/5BK	2.5	48/0.25	1	49	5.35
SOLAR1X4BK	4.0	48/0.30	1	66	6.00
SOLAR1X6BK	6.0	72/0.30	1	86	6.55
SOLAR1X10BK	10	126/0.30	1	132	7.60
SOLAR1X16BK	16	116/0.40	1	188	8.60
SOLAR1X25BK	25	180/0.40	1	294	10.80
SOLAR1X35BK	35	260/0.40	1	390	11.90

Characteristics.

Nominal voltage: AC: 0,6/1 kV;
DC: 1,8 kV

Ambient temperature range: - 40 °C to + 90 °C.

Maximum conductor temperature: 120 °C.

Maximum short-circuit temperature: 250 °C (maximum 5 s).

*Minimum bending radius (fixed): 5 x cable Ø.

No flame propagation: EN 60332-1-2 / IEC 60332-1-2.

No fire propagation: EN 60332-3 / IEC 60332-3.

Halogen free: according to EN 50267 / IEC 60754

HCl content < 0,5%.

pH > 4,3;

conductivity < 10 !S/mm.

Smoke density: light

transmittance > 60%

(according to EN 61034 / IEC 61034).

WHOLESALE FACTS

"Solar cables have proved to be a popular cable selling 1.5 million metres since 2010 to large solar farm projects and to small domestic installations."

Please note that gland and cleat sizes are intended to be indicative and may vary according to different manufacturers tolerances.

*All bending radii shown are indicative only as each individual manufacturer has their own criteria for their product. Specification of the minimum bending radius (MBR) of cables is not referred to in cable standards. This is a manufacturer declaration, based on their own judgement and experience of the capabilities of their cable, it is not a specification defined in standards.

FIXED WIRING AND MAINS CABLES LSZH DATA, COAXIAL AND LAN CABLES

BELDEN EQUIVALENTS:

CD8138/SWA/LSF	8 PAIR 28AWG COLLECTIVE SCREEN PLUS STEEL WIRE ARMOUR,LSF SHEATH.
CD8471	1 PAIR 16AWG UNSCREENED, PVC SHEATH.
CD8471/LSF	1 PAIR 16AWG UNSCREENED, PVC SHEATH.
CD8719	1 PAIR 16AWG COLLECTIVE SCREEN, PVC SHEATH.
CD8719/LSF	1 PAIR 16AWG COLLECTIVE SCREEN, LSF SHEATH.
CD8723/LSF	2 PAIR 22AWG INDIVIDUAL SCREEN ,LSF SHEATH.
CD8723/SWA/LSF	2 PAIR 22AWG INDIVIDUAL SCREEN PLUS STEEL WIRE ARMOUR, LSF SHEATH.
CD8760/LSF	1 PAIR 18AWG COLLECTIVE SCREEN. LSF SHEATH.
CD8761	1 PAIR 22AWG INDIVIDUAL SCREEN, PVC SHEATH.
CD8761/LSF	1 PAIR 22AWG INDIVIDUAL SCREEN, LSF SHEATH.
CD8762	1 PAIR 20AWG COLLECTIVE SCREEN, PVC SHEATH.
CD8762/LSF	1 PAIR 20AWG COLLECTIVE SCREEN, LSF SHEATH.
CD8777	3 PAIR 22AWG INDIVIDUAL SCREEN, PVC SHEATH.
CD8778	6 PAIR 22AWG INDIVIDUAL SCREEN, PVC SHEATH.
CD9182	1 PAIR 22AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9463	TWIN AXIAL 20AWG, PVC SHEATH.
CD9463/SWA/PVC	TWIN AXIAL 20AWG PLUS STEEL WIRE ARMOUR, PVC SHEATH.
CD9501	1 PAIR 24AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9501/LSF	1 PAIR 24AWG COLLECTIVE SCREEN, LSF SHEATH.
CD9502	2 PAIR 24AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9502/LSF	2 PAIR 24AWG COLLECTIVE SCREEN, LSF SHEATH.
CD9503	3 PAIR 24AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9504	4 PAIR 24AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9506	6 PAIR 24AWG COLLECTIVE SCREEN, PVC SHEATH.
CD9729	2 PAIR 24AWG INDIVIDUAL SCREEN, PVC SHEATH.
CD9773	3 PAIR 18AWG INDIVIDUAL SCREEN, PVC SHEATH.
PROFIBUS VIR	
PROFIBUS VIR + SWA.	

COAXIAL CABLES

CT100	75 OHM DOUBLE SCREENED, LOW LOSS COAX, AIR SPACED, PVC SHEATH.
CT100LSOH	75 OHM DOUBLE SCREENED, LOW LOSS COAX, AIR SPACED, LSOH SHEATH.
CCF100BK	75 OHM DOUBLE SCREENED, LOW LOSS COAX, FOAM FILLED, PVC SHEATH.
CC100BK	75 OHM DOUBLE SCREENED, LOW LOSS COAX, PE DIELECTRIC, PVC SHEATH.
CCF125BR	75 OHM DOUBLE SCREENED, LOW LOSS COAX, FOAM FILLED, PVC SHEATH.
CT125	75 OHM DOUBLE SCREENED, LOW LOSS COAX, AIR SPACED, PVC SHEATH.
CT125LSOH	75 OHM DOUBLE SCREENED, LOW LOSS COAX, AIR SPACED, LSOH SHEATH.
CT125RBS	75 OHM DOUBLE SCREENED, LOW LOSS COAX, AIR SPACED, DIRECT BURIAL SHEATH.
CT167	75 OHM DOUBLE SCREENED, LOW LOSS COAX, FOAM FILLED, PVC SHEATH.
CT167RBS	75 OHM DOUBLE SCREENED, LOW LOSS COAX, FOAM FILLED, DIRECT BURIAL SHEATH.
RG11AU	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC, PVC SHEATH.
RG11SWA	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC PLUS STEEL WIRE ARMOUR, PVC SHEATH.
RG58	50 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC, PVC SHEATH.
RG59BU	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC, PVC SHEATH.
RG59LSOH	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC, LSOH SHEATH.
RG59SWA	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC PLUS STEEL WIRE ARMOUR, PVC SHEATH.
RG62AU	93 OHM BRAIDED SCREEN, PE TUBE AND THREAD, PVC SHEATH.
RG62SWA	93 OHM BRAIDED SCREEN, PE TUBE AND THREAD PLUS SWA, PVC SHEATH.
URM202	75 OHM BRAIDED SCREEN, CELLULAR PE DIALECTRIC, PVC SHEATH.
URM203	75 OHM BRAIDED SCREEN, CELLULAR PE DIALECTRIC, PVC SHEATH.
URM70	75 OHM BRAIDED SCREEN, SOLID PE DIELECTRIC, PVC SHEATH.

UTP CABLES

4UTPCAT5E	ENHANCED UNSCREENED 4 PAIR CAT 5 E, GREY PVC SHEATH.
4UTPCAT5ELSF	ENHANCED UNSCREENED 4 PAIR CAT 5 E, LSF VIOLET SHEATH.
4FTPCAT5E	ENHANCED SCREENED 4 PAIR CAT 5 E, GREY PVC SHEATH.
4FTPCAT5ELSF	ENHANCED SCREENED 4 PAIR CAT 5 E, LSF VIOLET SHEATH.
4FTPCAT5ESWA	ENHANCED SCREENED 4 PAIR CAT 5 E PLUS SWA, LSF BLACK SHEATH.
4UTPCAT6	UNSCREENED 4 PAIR CAT 6, GREY PVC SHEATH.
4UTPCAT6LSF	UNSCREENED 4 PAIR CAT 6, GREY LSOH SHEATH
4UTPCAT5EDUCT	ENHANCED UNSCREENED 4 PAIR CAT 5 E, DUCT GRADE.

DATA AND
COAXIAL CABLES

FIXED WIRING AND MAINS CABLES LSZH

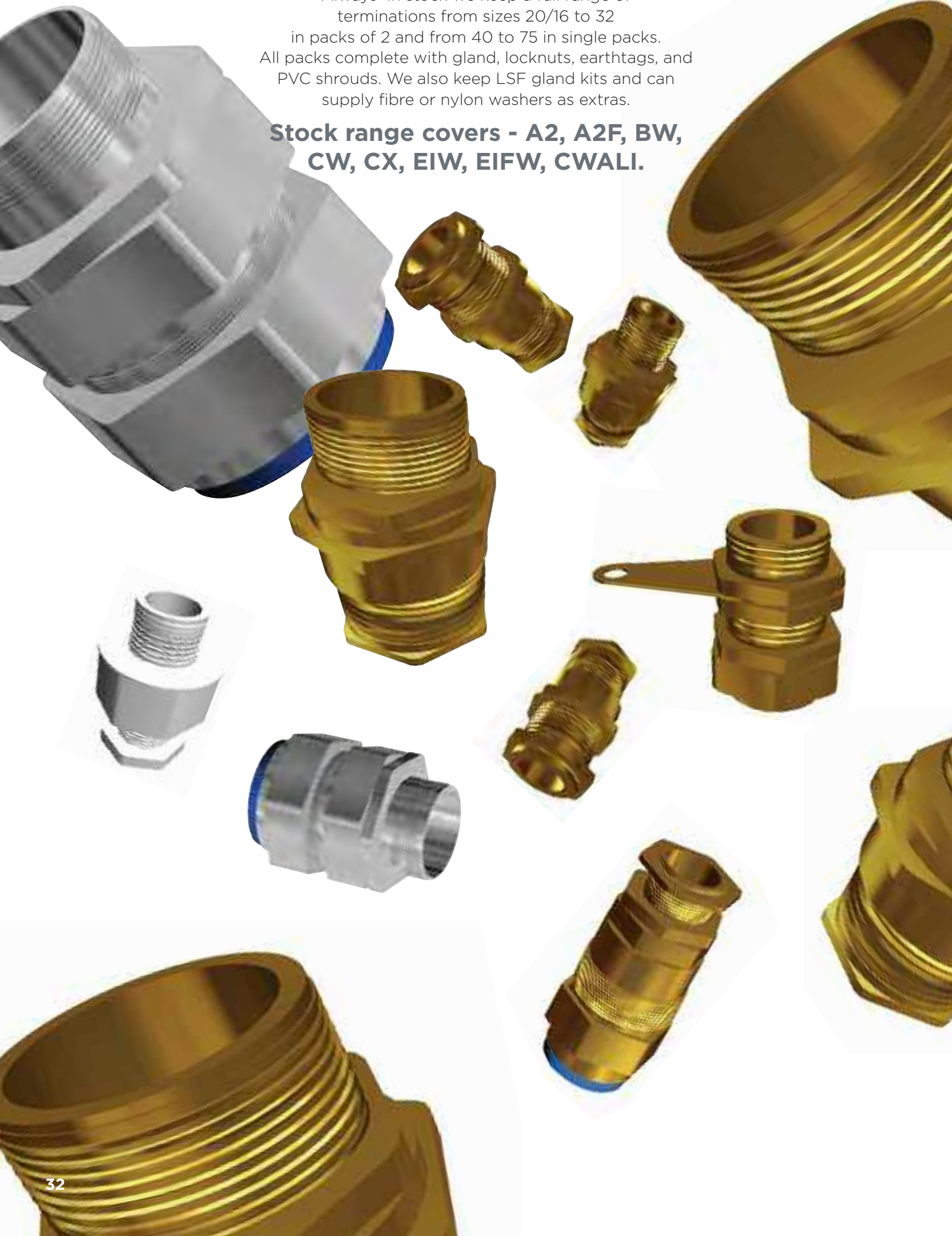
OTHER CABLES IN OUR STOCK RANGE:

BS5467 Mains, XLPE, PVC, SWA, MDPE, copper conductors 4mm² – 400mm²
 BS5467 Mains, XLPE, PVC, SWA, PVC, aluminium conductors, 25mm² – 300mm²
 Mines & Quarries Mains, XLPE, PVC, SWA, PVC, with 60% Conductivity in armour, 10mm² – 300mm²
 EEMUA 133Multicore, XLPE, lead sheathed, PVC, SWA, PVC, Control cable for petro-chemical industries, 1.5mm² – 4mm²
 EEMUA 133Mains, XLPE, lead sheathed, PVC,SWA, PVC, for petro-chemical industries, 1.5mm² – 300mm²
 Cathodic Protection Cables. XLPE, PVC, and XLPE, PVC, SWA, PVC, 6mm² –185mm²
 Concentric, split & straight, single phase service cable, 4mm² – 35mm²
 BS5467 Mains, single core XLPE, PVC, aluminium wire armoured, PVC, 3300V, 120mm² – 630mm²
 BS5467 Mains three core, XLPE, PVC, SWA, PVC, 3300V, 16mm² – 300mm²
 Mines & Quarries Mains, XLPE, PVC, SWA, PVC, with 60% conductivity in armour, 3300V, 16mm² – 300mm²
 EEMUA 133 Mains, XLPE, Lead sheathed, PVC, SWA, PVC, for petro-chemical industries, 3300V, 25mm² – 300mm²
 BS6622 Mains, single core, XLPE, CTS, PVC, aluminium wire armoured, PVC, 11000V, 50mm² – 630mm²
 BS6622 Mains, three core, XLPE, CTS, PVC, SWA, PVC, 11000V, 25mm² – 400mm²
 BS6622 Mains, three core, aluminium conductor, XLPE, CTS, PVC, SWA, PVC, 11000V, 95mm² – 300mm²
 Triplex, BS7870, aluminium conductor XLPE, CTS,MDPE, 11000V, utility cable, 70mm² – 300mm²
 Paper insulated, BS6480Mains, three core, SWA, PVC, 11000V, 25mm² – 400mm²
 BS7835 Mains, single core, XLPE, CTS, LSZH, aluminium wire armoured, LSZH, 11000V, 50mm² – 630mm²
 BS7835 Mains, three core, XLPE, CTS, LSZH, SWA, LSZH, 11000V, 35mm² – 400mm²
 BS7835 Mains, three core, XLPE, CTS, LSZH, SWA, LSZH, 22000V and 33000v, 95mm² – 185mm²
 BS7870 Mains, single core, aluminium conductors , XLPE, CWS, MDPE, 33000v 70mm² –630mm² 33kv Wind Farm Cables
 BS7870 Mains, single core, copper conductors , XLPE, CWS, MDPE, 33000v 70mm² – 630mm² 33kv Wind Farm Cables
 BS6207 Mineral Insulated Cables
 BS6387 Fire performance single core cable, 1.5mm² – 16mm²
 BS6387/BS7846 Mains and control, mica tape, XLPE, LSZH,SWA, LSZH, fire resistant,1.5mm² – 400mm²
 BS6387/BS7846 Mains and control, mica tape, XLPE, LSZH,SWA, LSZH, fire resistant, enhanced, 1.5mm² – 400mm²
 6381Y PVC, PVC, 6mm² – 400mm²
 380*P EPR insulated, copper braided screen, PCP sheathed, flexible mains, 1mm² – 16mm²
 BS6500 EPR insulated, TR sheathed, flexible power & control 0.75mm² – 2.5mm²
 Coil lead BS6195 EPR, CSP, 0.5mm² – 400mm²
 Welding cable, O361TQ EPR, CSP, 16mm² – 185mm²
 Flatform cable, PVC, PVC, and EPR, PCP 1.5mm² – 95mm²
 Silicon insulated, silicon sheathed, flexible cable, 0.75mm² – 2.5mm²
 BS5308 Control and instrumentation cable, non-armoured and armoured with collective or individual and collective screen
 0.5mm² - 1.5mm² part 1 and 2, type 1 and 2.
 BS5308 Control and instrumentation cable, lead sheathed, armoured with collective or individual and collective screen
 0.75mm² - 1.5mm² part 1 and part 2
 British Steel specification CES20 type 134 and type 143 0.75mm²
 CW1308 telephone cable
 Telephone cable to ESI 09-6 standard
 Petroleum jelly filled telephone cable to CW1128, CW1128/1198 and BS3573
 Thermocouple extension and compensating cable, 0.75mm²
 Traffic signal cable, loop feeder cable and loop detector cable
 Signalling cable types A1, A2, A3, B1 and B2, 0.75mm² – 95mm²
 Signalling cable types C1, C2, C3, D1, D2, D3, E1, E2 and E3, 0.75mm² – 35mm²
 Train protection warning system cable, Point heater cable, Axle counting cable and Datalink cable
 Copper trackside cable
 Network Rail specification class 2 Signalling “FGT” cables
 Trackfeeder cables, 150mm² – 1000mm²
 EPR insulated, non-armoured shipwiring cable, 1.5mm² – 630mm²
 EPR insulated, braided armoured shipwiring cable, 1.5mm² – 300mm²
 EPR insulated, single core braided shipwiring cable, 6mm² – 630mm²
 UKOOA Standard instrumentation cables including fire resistant Mica glass types

CABLE GLANDS

Always in stock we keep a full range of terminations from sizes 20/16 to 32 in packs of 2 and from 40 to 75 in single packs. All packs complete with gland, locknuts, earthtags, and PVC shrouds. We also keep LSF gland kits and can supply fibre or nylon washers as extras.

Stock range covers - A2, A2F, BW, CW, CX, EIW, EIFW, CWALI.

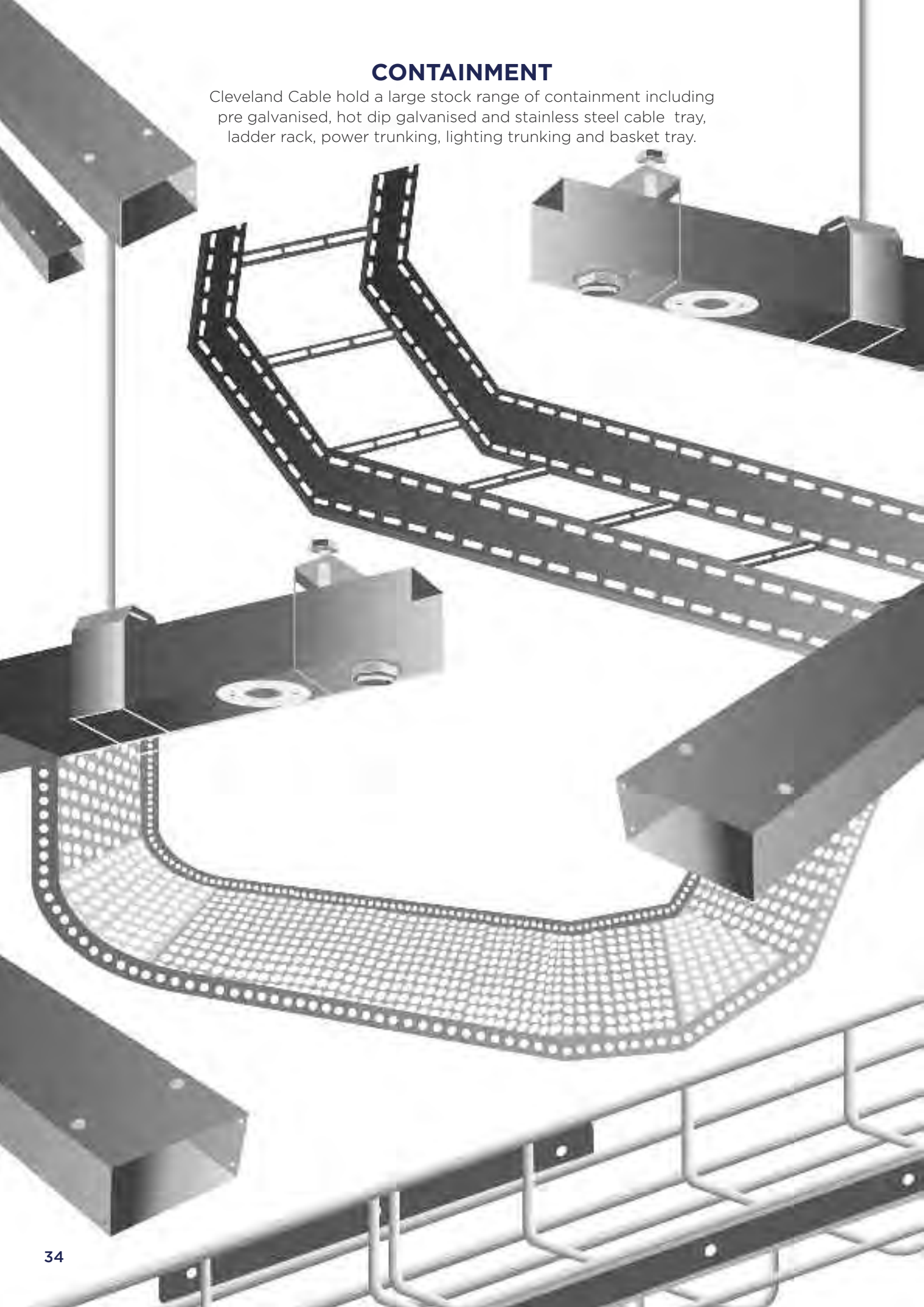


XLPE/LSZH/SWA/LSZH CABLES TO BS6724

Note: For cables up to 35mm sq, Conductors are Circular Stranded and for cables 50mm sq and over, conductors are Shaped Stranded

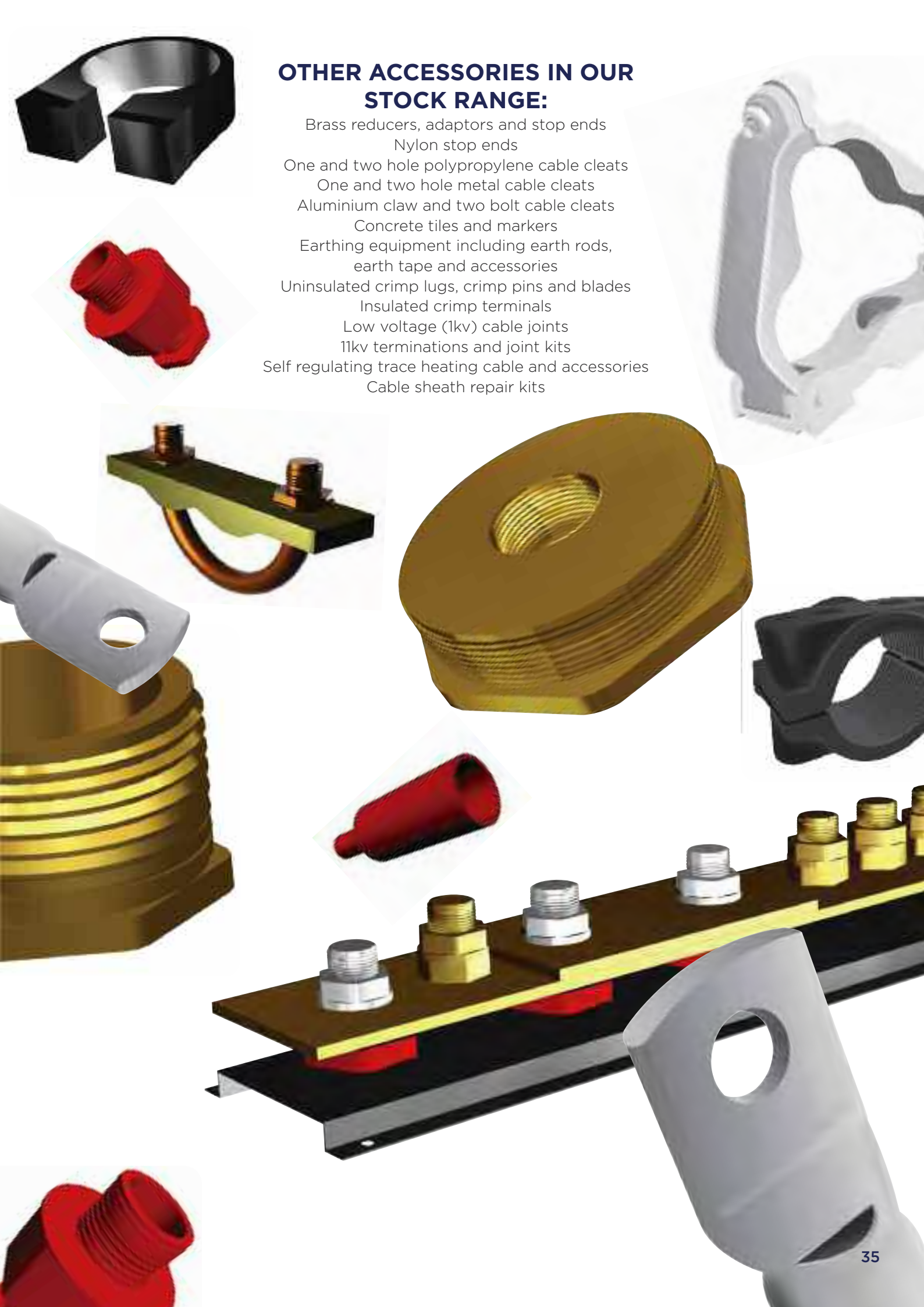
CONTAINMENT

Cleveland Cable hold a large stock range of containment including pre galvanised, hot dip galvanised and stainless steel cable tray, ladder rack, power trunking, lighting trunking and basket tray.

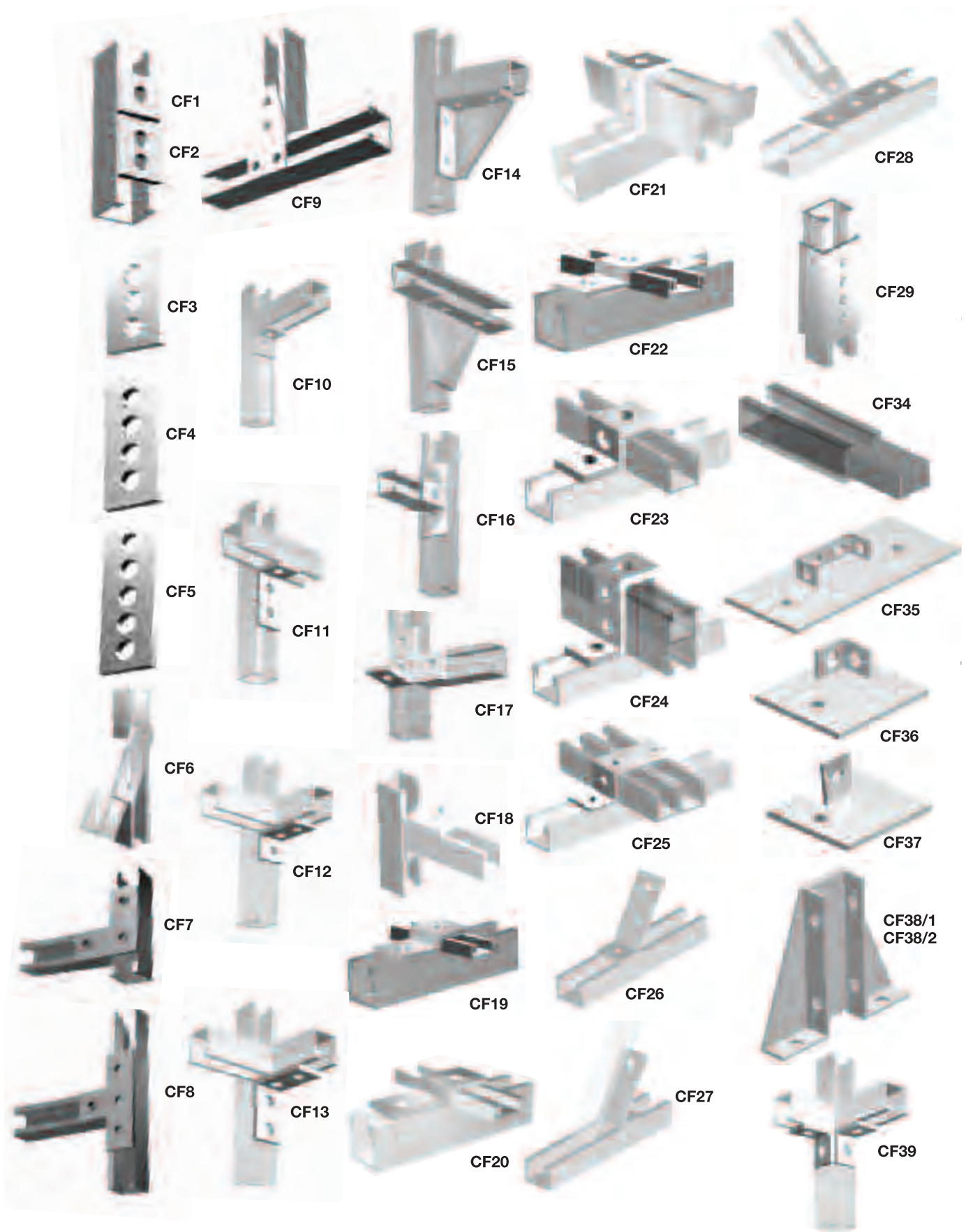


OTHER ACCESSORIES IN OUR STOCK RANGE:

Brass reducers, adaptors and stop ends
Nylon stop ends
One and two hole polypropylene cable cleats
One and two hole metal cable cleats
Aluminium claw and two bolt cable cleats
Concrete tiles and markers
Earthing equipment including earth rods,
earth tape and accessories
Uninsulated crimp lugs, crimp pins and blades
Insulated crimp terminals
Low voltage (1kv) cable joints
11kv terminations and joint kits
Self regulating trace heating cable and accessories
Cable sheath repair kits

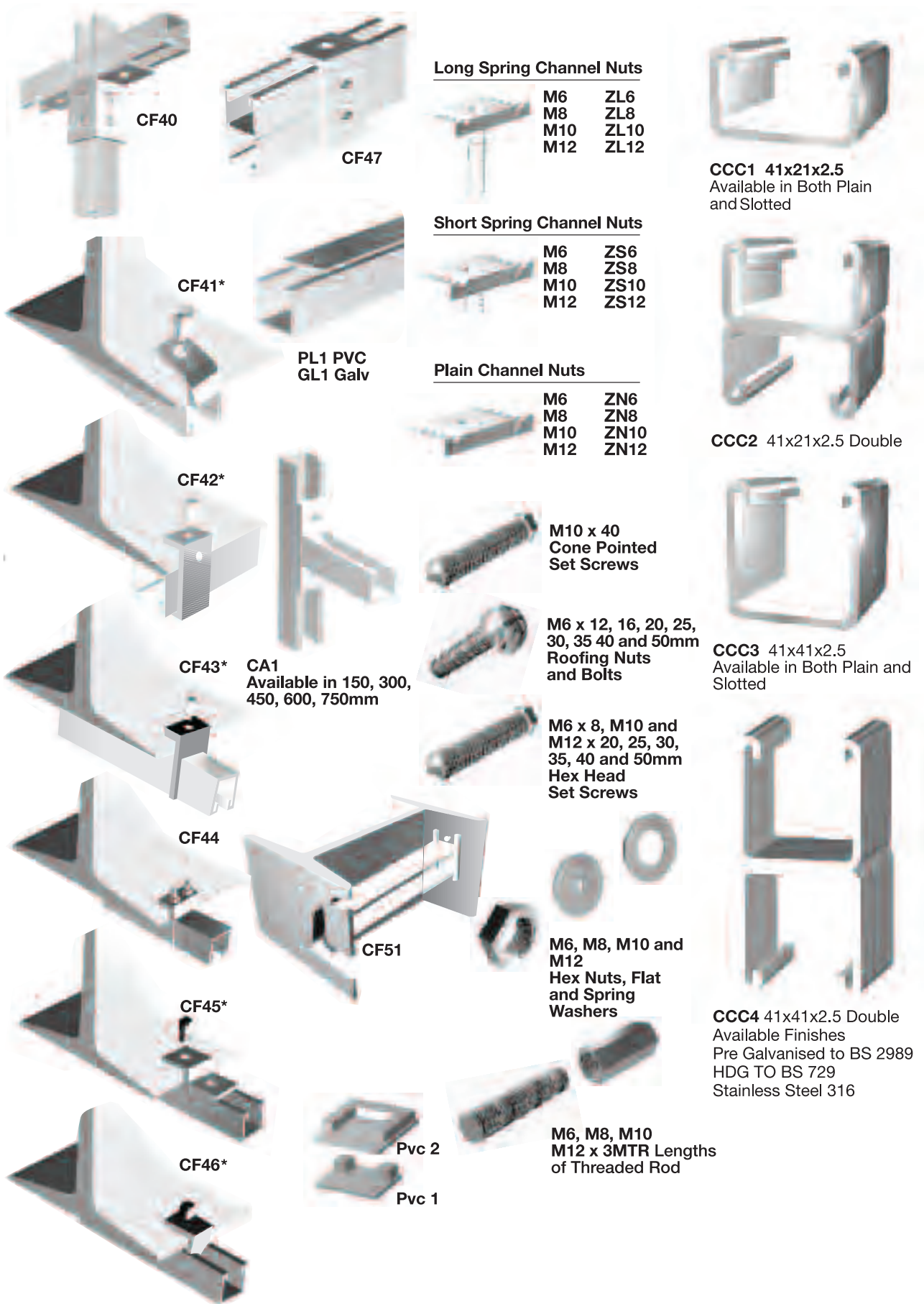


FRAMING AND SUPPORT SYSTEMS



AVAILABLE IN HOT DIP GALVANISED OR STAINLESS STEEL

FRAMING AND SUPPORT SYSTEMS



AVAILABLE IN HOT DIP GALVANISED OR STAINLESS STEEL

1. DEFINITIONS

'The Vendor' means Cleveland Cable Co. Ltd, whose registered office is situated at Riverside Park, Middlesbrough, TS2 1QW.

'The Goods' shall mean any or all of the goods or materials or services which from time to time the vendor contracts to supply subject to these conditions.

'The Purchaser' means the person, firm or company who places an order with the Vendor or otherwise agrees to buy from the Vendor any of the goods.

2. APPLICATION

- 2.1 These conditions shall apply to contracts, whether written or oral, for the sale of Goods by the Vendor.
- 2.2 Any conditions of purchase or other terms provided by the Purchaser shall be of no effect whatsoever nor shall any variation or alteration of these conditions be of any effect unless made in writing and signed on behalf of the Vendor by a director.
- 2.3 No binding contract shall be created by the placing of an order by the Purchaser unless and until the Vendors written acknowledgement of order shall have been posted or delivered or in the event that no such acknowledgement is sent, the date of despatch of the Goods to the purchaser.

3. QUOTATIONS

Any quotation in whatever form given to the Purchaser is given subject to these conditions as an invitation to treat and does not constitute an offer to sell. The validity of any quotation issued by the Vendor shall expire seven (7) days after the date of its issue.

4. PRICES

- 4.1 Subject to anything to the contrary contained in any quotation issued by the Vendor, prices for the Goods are as referred to in the Vendor's price list from time to time and, unless otherwise stated, are exclusive of value added tax and any other similar tax. The Vendor reserves the right to alter any of its prices without notice and the relevant list price should be that ruling at the date of acceptance of the Purchasers offer to buy.
- 4.2 Prices quoted, unless otherwise expressly stated in writing by the Vendor, are exclusive of carriage, packing, handling and any insurance charges.
- 4.3 The Purchaser shall have no right of set-off whether statutory or otherwise.
- 4.4 All prices payable must be settled in the currency of the English realm.

5. PAYMENT & DEFAULT by PURCHASER

- 5.1 Subject to sub-clause 5.2 and 5.3 the Purchaser shall pay the Vendor in full for the Goods within 30 days of the invoice or delivery whichever is the earlier.
- 5.2 In the event that the Purchaser fails to make payment by the due date or otherwise commits a breach of these conditions, the Vendor may in its absolute discretion and without prejudice to any other rights which it may have:
 - (i) Suspend all future deliveries or supplies to the Purchaser under the contract in question or under any other contract(s) and/or terminate any such contract(s) without liability upon it part;
 - (ii) Require payment in advance for any future deliveries;
 - (iii) (In the case of non payment on or before the due date or on demand as mentioned in sub-clause 5.3 below) Charge interest on the amount due on a day to day basis at the rate of 2% per month compounded quarterly from the time of delivery until the date of actual payment whether before or after judgement.
- 5.3 The Vendor shall also have all rights referred to in paragraph 5.2 hereof (without prejudice to any other rights which it may have) and may demand immediate payment of all sums whether or not due in the event that any distress or execution shall be levied upon any goods of the Purchaser or if the Purchaser offers to make any arrangement with its creditors or commits an act of bankruptcy or if a petition in bankruptcy be presented against the Purchaser or if any resolution or petition to wind up the Purchaser (other than for the purpose of amalgamation or reconstruction without insolvency) shall be presented or passed or if any petition for an administration order is presented or if a receiver or manager shall be appointed over the whole or any part of the Purchaser's business.

6. DELIVERY

- 6.1 Delivery will be made by the Vendor at its works in the United Kingdom but for the convenience of the Purchaser it will, if requested, endeavour to arrange an agent for the Purchaser but at the purchasers expense

for the carriage of the Goods to a destination specified by the Purchaser and (if so required and at the Purchaser's expense) for their insurance.

- 6.2 Whatever delivery takes place it will be the Purchasers responsibility to provide any necessary machinery and labour to off-load the goods and to ensure delivery can take place at the agreed time and place. The Purchaser shall be liable to indemnify the Vendor for any loss or expense incurred as a result of a breach of these obligations. Without prejudice to the foregoing if the Vendor agrees to provide labour for the loading free of charge then the Vendor will not be liable for any loss or damage howsoever arising through any act, omission or negligence of any of its employees.
- 6.3 Although given in good faith, delivery times for the supply of Goods specified by the Vendor in its quotation or otherwise are intended as estimates only and are not therefore to be treated as being of the essence of the contract or binding on the Vendor. The Vendor will not be liable to the Purchaser for any loss or damage (direct or indirect) occasioned by its failure (whether as a result of its negligence or otherwise) to deliver the Goods by the date or within the time stated and in no case shall delay be a ground for rejecting the same.
- 6.4 The right to deliver any part or parts of the Goods when they become available is expressly reserved by the Vendor and these conditions shall apply to any such part or parts mutatis mutandis.
- 6.5 It is the Purchasers responsibility to check that materials are correct and in good condition at the time of receipt. Claims for deficiencies of any nature will not be considered after delivery has been accepted and transport notes signed accordingly.
- 7. RISK**
 - 7.1 In the event that the Goods are to be delivered by the Vendor to a place nominated by the Purchaser, the risk therein shall pass to the Purchaser at the time they are dispatched with the carrier for delivery.
 - 7.2 In the event that the Goods are to be collected by or on behalf of the Purchaser from the Vendors works, the risk therein shall pass to the Purchaser when the Purchaser takes control of the Goods which will be taken to be the time at which the delivery advice note is signed as received in the absence of evidence to the contrary.
- 8. CANCELLATION**

The Vendor shall be under no obligation whatsoever to accept any cancellation of an order once accepted nor any return of the Goods once dispatched. However, if the Vendor at its complete discretion agrees to accept any such cancellation or return, it may levy such charges as it, in its absolute discretion, sees fit.
- 9. TITLE**
 - 9.1 The provision of this clause shall apply until such time as the price of the Goods have been paid in full or until payment has been made of all other sums owing to the Vendor at the date of this contract on any account whatsoever arising whichever occurrence shall be the latter.
 - 9.2 The property of the Goods shall remain with the Vendor and the Purchaser shall hold the Goods as fiduciary agent and bailee for the Vendor.
 - 9.3 The Purchaser shall store the Goods in such a manner that they can be identified as the property of the Vendor and shall ensure that the Goods are not incorporated in or mixed in or used as part of other Goods.
 - 9.4 Subject to sub-clauses 9.3, 9.5 and 9.6 the Purchaser shall be at liberty to sell or use the Goods in the ordinary course of its business and the Vendor grants the Purchaser a licence for this purpose. 9.5 The Purchaser shall account to the Vendor for the proceeds of any sale of the Goods, whether sold on their own or in conjunction with other goods and until such account is made the Purchaser will hold the proceeds of sale upon trust for the Vendor. The Purchaser shall ensure any monies received for the Goods are not mixed with other monies or paid into any overdrawn bank account.
 - 9.6 The power of sale given to the Purchaser by sub-clause 9.4 above will automatically terminate if the Purchaser goes into receivership or if a petition is prepared for its winding up or passes a resolution for voluntary winding up or if a petition for an administration order is presented or (if applicable) bankruptcy. Further the Vendor may terminate the said power of sale at any time by written notice if the Purchaser is in default of payment of any sum due to the Vendor of the licence given by the Vendor.

Conditions of Sale (cont.)

- 9.7 At any time after termination pursuant to 9.6 above, the Vendor may repossess the Goods and the Purchaser hereby grants to the Vendor an irrevocable licence to enter upon the premises of the Purchaser for the purpose of so doing.
- 9.8 The Vendor shall be entitled to appropriate any payment made by the Purchaser in settlement of such invoices or accounts as the Vendor in its absolute discretion thinks fit notwithstanding any purported appropriate to the contrary by the Purchaser.
- 9.9 Each of the foregoing sub-clauses shall, so far as the context permits, be read and construed independently of the other sub-clauses so that if one or more of them shall be held to be invalid this shall not affect the validity of the remaining sub-clauses.

10. WARRANTY

- 10.1 The Vendor warrants it has title of the Goods and right to sell the same.
- 10.2 No representation or warranty is given as to the suitability or fitness of the Goods for any purpose and the Purchaser shall satisfy itself in this respect and shall be totally responsible therefore.

11. EXCLUSION of LIABILITY

- 11.1 The Vendor shall be under no liability whatsoever for any defect in, failure of, or unsuitability for any purpose of the Goods or any part thereof whether the same be due to the act of omission, negligence or default of the Vendor or its servants or agents, and all conditions, warranties and other terms whether expressed or implied statutory or otherwise, inconsistent with the provisions of this condition are hereby expressly excluded provided that nothing herein contained shall be construed as excluding or restricting the liability of the Vendor for death or personal injury resulting from the negligence of the Vendor.
- 11.2 Where the Purchaser deals as a consumer within the meaning of that expression as defined in Section 12 of the Unfair Contract Terms Act 1977 none of the statutory rights of the Purchaser are excluded by these terms, conditions and the statutory rights of the Purchaser in the case of a consumer shall remain in full force and effect and are in no way affected by any of the provisions of these terms and conditions.
- 11.3 In no circumstances, shall the Vendor be liable for any loss or damage suffered by the Purchaser of the following nature however caused and whether foreseeable or contemplable:-
- (i) Economic loss which shall include loss of profits, business revenue, goodwill and anticipated saving.
 - (ii) Any claim made against the Purchaser by any third party.
- 11.4 Each of the Foregoing sub-clauses shall, so far as the context permits, be read and construed independently of the other sub-clauses so that if one or more of them shall be held to be invalid this shall not affect the validity of the remaining sub-clauses.

12. PATENT INFRINGEMENT

- 12.1 The Vendor warrants only that the Goods themselves will not infringe any patent rights published (at the date of the contract) in the United Kingdom and the Vendor shall indemnify the Purchaser against damage and costs awarded for any such infringement provided that:
- (a) This indemnity shall not apply to any infringement which is due to the Vendor having followed any instructions or plans given by the Purchaser or to the use such goods in a manner or for a purpose of in a foreign country not specified or disclosed to the Vendor.
 - (b) This indemnity is conditional upon the Purchaser giving to the Vendor the earliest possible notice in writing of any claim being made or action threatened against the Purchaser and upon the Purchaser permitting the Vendor to conduct any litigation that may ensue and all the negotiations for settlement of the claim.
- 12.2 The Purchaser warrants that any instructions or plans furnished or given by it shall not be such as will cause the Vendor to infringe any letters, patent, copyright, registered design, right of confidence or trade mark in execution of the Purchaser's order and agrees to indemnify the Vendor against all claims, costs or other expenses incurred by the Vendor in respect thereof.

13. GENERAL LIEN

- 13.1 The Vendor shall have a general lien over all goods of the Purchaser in its possession for all monies due to the Vendor or liabilities incurred by the Vendor upon whatever account shall also be entitled to apply any monies of the Purchaser held by one contract to the discharge of monies due to it under any other contract. The Vendor shall be entitled to charge rent and other expenses incurred during all periods which a lien on goods is being asserted. Further, if the Vendor exercises its right of lien over any goods then if monies due are not paid within one month after it has first retained such goods or if the circumstances mentioned in clause 5.3 arise, the Vendor shall have the power, without giving notice, to sell the whole or part of such goods to cover the monies due and expenses of sale.
- 13.2 For the avoidance of doubt it is hereby declared that nothing in this clause shall affect the rights given to the Vendor by sections 38-48 of the Sale of Goods Act 1979.

14. CATALOGUES, ADVERTISEMENTS & DRAWINGS etc

- 14.1 Whilst the Vendor believes that all specifications, illustrations, performance data and other information contained in any drawings, catalogues and advertisements are as accurate as reasonable possible, they do not constitute a description of the Goods, shall not be taken to be representations made by the vendor and are not warranted to be accurate.
- 14.2 The copyright in all matters referred to in paragraph 12.1 above shall at all times remain vested in the Vendor and the Purchaser shall not reproduce or use any of them without the Vendor's prior written consent.
- 14.3 Any sample seen by the Purchaser is simply an indication of what attributes the bulk should have, no warranty or representation is given or may be implied that the bulk will be identical to the sample in any attribute.

15. ALTERATIONS & MODIFICATIONS

The Vendor may carry out from time to time and without prior notice to the Purchaser alterations or improvements in construction or design, specification, materials or manner of manufacture of the Goods.

16. DEFACING of the GOODS

The Purchaser shall not deface, tamper with or remove in all or part any trade mark, logo or insignia which may be embossed upon or affixed to the Goods (nor affix any other trade mark, logo or insignia thereon) without prior consent of the Vendor and shall not otherwise deface and/or interfere with, alter or modify any of the Goods.

17. INSTRUCTIONS for USE and INSTALLATION

The purchaser will comply with such instructions for use and installation in respect of the Goods as may be issued by the Vendor from time to time and will install the Goods using competent tradesman in accordance with generally accepted levels of good practice.

18. FORCE MAJEURE

Without prejudice to the generality of any of the foregoing conditions the Vendor shall not be liable for any loss or damage caused by the non-performance or delay in the performance of any of its obligations hereunder if the same is occasioned by any cause whatsoever which is beyond the Vendors control, including but not limited to Acts of God, war, civil disturbances, requisitioning, import or export regulations, strike, lock-out or trade dispute, difficulties in obtaining materials, breakdown of machinery, fire or accident. Should any such event occur the Vendor may cancel or suspend this contract without incurring any liability for any loss or damage thereby occasioned.

19. NOTICES

Any notice required to be served pursuant to these conditions shall be served as follows:-

Notices to the Vendor: to its office, or such other address as it may from time to time notify to the Purchaser;

Notices to the Purchaser: to such address as the Purchaser may notify to the Vendor or, in default of notification, to the address to which the Goods are or were to be delivered, or if the Purchaser is a company, at the Vendors option to the Purchaser's registered office.

20. GOVERNING LAW

This contract is governed by the laws of England and the Purchaser agrees to submit to the prejudice of the English law courts.



CLEVELAND CABLE COMPANY

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