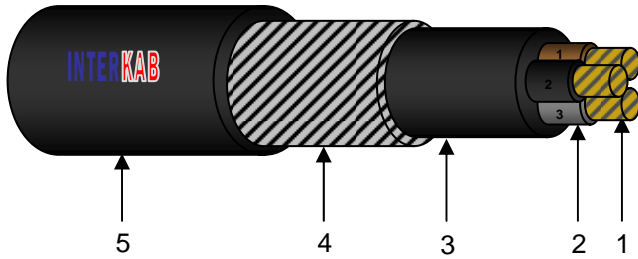


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Flame Retardant

Onshore Power & Control Cables to BS5467 Specification

Multi Core Armoured Cables



Applicable Standards:

BS5467 / IEC 60502
Class 2 or tinned annealed copper
conductors to BS EN 60288:2005
(previously BS6360)

Application:	Power and auxiliary control cables for power networks, underground, outdoors, indoors and In the cable ducting
(1) Conductor:	Stranded Class 2 Plain Annealed Copper Conductor to BS EN 60288:2005
Fire Protection:	None
(2) Insulation:	XLPE
(3) Bedding:	PVC/LSF Inner Sheath
(4) Armour:	Single Core: Aluminium Wire (AWA) Multi Core: Steel Wire Armour (SWA)
(5) Outer Sheath:	PVC/LSF Sheath - Black
Conductor Identification:	<p>The legend will include the manufacturers name, voltage, BS5467, number of cores and cross sectional area, cable sheath class (e.g. PVC) and IEC60332 Where applicable. The standard sheath colour is black however other colours are available on request.</p> <p>2 Core – Brown, Blue 3 Core – Brown, Black, Grey 4 Core – Brown, Black, Grey, Blue 5 Core & Above – White with Black Numbers 5 Core & Above – 10mm² and 16mm² - Brown, Black, Grey, Blue, Green/Yellow</p>

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Cable	1 x 50	1 x 70	1 x 95	1 x 120	1 x 150	1 x 185	1 x 240	1 x 300	1 x 400	1 x 500	1 x 630	1 x 800	1 x 1000
Stranding mm	19/1.78	19/2.14	19/2.52	37/2.03	37/2.25	37/2.52	61/2.25	61/2.52	61/2.85	61/3.20	127/2.52	127/2.85	127/3.20
Diameter over Inner Sheath (min/max) mm	11.2/13.2	13.1/15.1	14.8/16.8	16.5/18.5	18.7/20.7	20.9/22.9	23.6/25.6	26.1/28.1	29.9/31.9	33.6/35.6	37.9/39.9	43.1/45.1	47.8/49.8
Diameter over Armour /Braid (min/max) mm	13.7/15.7	15.6/17.6	17.3/19.3	19.0/21.0	21.9/23.9	24.1/26.1	26.8/28.8	29.3/31.3	33.9/35.9	37.6/39.6	41.9/43.9	48.1/50.1	52.8/54.8
Thickness of Armour / Braid mm	1.25	1.25	1.25	1.25	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.5	2.5
Thickness of Outer Sheath mm	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	2.4	2.5
Overall Diameter (min/max) mm	16.7/18.7	18.6/20.6	20.5/22.5	22.2/24.2	25.3/27.3	27.7/29.7	30.4/32.4	33.1/35.1	37.9/39.9	41.8/43.8	46.3/48.3	52.9/54.9	57.8/59.8
Gland Size	A	B	B	B	C	C	C	C2	C2	D	D	E	E
Weight kg/km	800	940	1220	1490	1870	2290	2880	3520	4520	5680	7120	9220	11270
Bend Radius – xOD	6	6	6	6	6	6	6	6	6	6	6	6	6
Conductor Temperature Limits - (min/max)°C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C	-15/+90 °C
Max. Conductor Resistance @ 20°C – ohms/Km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
Nominal Voltage Drop mV/A/m	0.870	0.620	0.470	0.390	0.330	0.280	0.240	0.210	0.195	0.180	0.170	0.165	0.155
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Onshore Power & Control Cables to BS5467 Specification

Multi Core Armoured Cables

Cable	2 x 1.5	2 x 2.5	2 x 4	2 x 6	2 x 10	2 x 16	2 x 25	2 x 35	2 x 50	2 x 70	2 x 95	2 x 120	2x150	2 x 185
Stranding mm	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	7/2.14	7/2.52	19/1.78	19/2.14	19/2.52	37/2.03	37/2.25	37/2.52
Diameter over Inner Sheath (min/max) mm	6.6/8.6	7.6/9.6	8.7/10.7	9.8/11.8	11.4/13.4	12.7/14.7	14.2/16.2	20.3/22.3	17.5/19.5	20.1/22.1	22.9/24.9	25.9/27.9	28.8/30.8	32.5/34.5
Diameter over Armour /Braid (min/max) mm	8.4/10.4	9.4/11.4	10.5/12.5	11.6/13.6	13.2/15.2	15.2/17.2	16.7/18.7	23.5/25.5	20.7/22.7	23.3/25.3	26.9/28.9	29.9/31.9	32.8/34.8	37.5/39.5
Thickness of Armour / Braid mm	0.9	0.9	0.9	0.9	0.9	1.25	1.25	1.6	1.6	1.6	2.0	2.0	2.0	2.5
Thickness of Outer Sheath mm	1.3	1.6	1.6	1.65	1.9	1.5	3.2	1.7	1.8	1.9	2.0	2.1	2.2	2.4
Overall Diameter (min/max) mm	11.0/13.0	12.6/14.6	13.7/15.7	14.9/16.9	17.0/19.0	18.2/20.2	23.1/25.1	26.9/28.9	24.3/26.3	27.1/29.1	30.9/32.9	34.1/36.1	37.2/39.2	42.3/44.3
Gland Size	O	O	O	A	A	A	B	C	C	C	C	C2	C2	D
Weight kg/km	290	340	410	470	760	900	1000	1400	1800	2320	3160	3790	4500	5820
Bend Radius - xOD	6	6	6	6	6	6	8	8	8	8	8	8	8	8
Conductor Temperature Limits - (min/max)°C	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90
Max. Conductor Resistance @ 20°C - ohms/Km	12.100	7.410	4.610	3.080	1.830	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099
Nominal Voltage Drop mV/A/m	31.000	19.000	12.000	7.900	4.700	2.900	1.900	1.350	1.000	0.690	0.520	0.420	0.350	0.290
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Onshore Power & Control Cables to BS5467 Specification

Multi Core Armoured Cables

Cable	2 x 240	3 x 1.5	3 x 2.5	3 x 4	3 x 6	3 x 10	3 x 16	3 x 25	3 x 35	3 x 50	3 x 70	3 x 95	3 x 120	3 x 150
Stranding mm	61/2.25	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	7/2.14	7/2.52	19/1.78	19/2.14	19/2.52	37/2.03	37/2.25
Diameter over Inner Sheath (min/max) mm	37.3/39.3	7.3/9.3	8.2/10.2	9.3/11.3	10.6/12.6	12.2/14.2	15.1/17.1	19.1/21.1	21.8/23.8	20.6/22.6	24.0/26.0	27.5/29.5	30.6/32.6	34.5/36.5
Diameter over Armour/Braid (min/max) mm	42.3/44.3	9.1/11.1	10.0/12.0	11.1/13.1	12.4/14.4	14.7/16.7	17.6/19.6	22.3/24.3	25.0/27.0	23.8/25.8	27.2/29.2	31.5/33.5	34.6/36.6	39.5/41.5
Thickness of Armour/Braid mm	2.5	0.9	0.9	0.9	0.9	1.25	1.25	1.6	1.6	1.6	1.6	2.0	2.0	2.5
Thickness of Outer Sheath mm	2.5	1.45	1.55	1.6	1.6	1.9	1.6	1.7	1.8	1.8	1.9	2.1	2.2	2.3
Overall Diameter (min/max) mm	47.3/49.3	12.0/14.0	13.1/15.1	14.3/16.3	15.6/17.6	18.5/20.5	20.8/22.8	25.7/27.7	28.6/30.6	27.4/29.4	31.0/33.0	35.7/37.7	39.0/41.0	44.1/46.1
Gland Size	D	O	O	A	A	A	B	C	C	C	C	C2	C2	D
Weight kg/km	7220	310	380	450	700	820	1070	1550	1900	2360	3120	4310	5160	6610
Bend Radius - xOD	8	6	6	6	6	6	6	8	8	8	8	8	8	8
Conductor Temperature Limits - (min/max)°C	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90
Max. Conductor Resistance @ 20°C - ohms/Km	0.075	12.100	7.400	4.610	3.080	1.830	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124
Nominal Voltage Drop mV/A/m	0.240	27.000	17.000	10.000	6.800	4.100	2.500	1.650	1.150	0.870	0.600	0.450	0.370	0.300
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Onshore Power & Control Cables to BS5467 Specification

Multi Core Armoured Cables

Cable	3 x 185	3 x 240	3 x 300	3 x 400	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25	4 x 35	4 x 50	4 x 70
Stranding mm	37/2.52	61/2.25	61/2.52	61/2.85	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	7/2.14	7/2.52	19/1.78	19/2.14
Diameter over Inner Sheath (min/max) mm	38.5/40.5	43.3/45.3	48.1/50.1	54.0/56.0	8.1/10.1	9.1/11.1	10.4/12.4	11.8/13.8	13.6/15.6	16.9/18.9	21.3/23.3	24.3/26.3	23.3/25.3	27.6/29.6
Diameter over Armour/Braid (min/max) mm	43.5/45.5	48.3/50.3	53.1/55.1	59.0/61.0	9.9/11.9	10.9/12.9	12.2/14.2	14.3/16.3	16.1/18.1	19.4/21.4	24.5/26.5	27.5/29.5	26.5/28.5	31.6/33.6
Thickness of Armour/Braid mm	2.5	2.5	2.5	2.5	0.9	0.9	0.9	1.25	1.25	1.25	1.6	1.6	1.6	2.0
Thickness of Outer Sheath mm	2.4	2.6	2.7	2.9	1.55	1.55	1.6	1.7	2.0	1.6	1.7	1.8	1.9	2.1
Overall Diameter (min/max) mm	48.3/50.3	53.5/55.5	58.5/60.5	64.8/66.8	13.0/15.0	14.0/16.0	15.4/17.4	17.7/19.7	20.1/22.1	22.6/24.6	27.9/29.9	31.1/33.1	30.3/32.3	35.8/37.8
Gland Size	D	E	E	F	O	O	A	A	B	B	C	C2	C2	C2
Weight kg/km	7920	9930	11970	14770	360	430	540	750	980	1300	1900	2300	2950	4230
Bend Radius - xOD	8	8	8	8	6	6	6	6	6	6	8	8	8	8
Conductor Temperature Limits - (min/max)°C	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90
Max. Conductor Resistance @ 20°C – ohms/Km	0.099	0.075	0.060	0.047	12.100	7.410	4.610	3.080	1.830	1.150	0.727	0.524	0.387	0.268
Nominal Voltage Drop mV/A/m	0.260	0.210	0.185	0.170	27.000	17.000	10.000	6.800	4.100	2.500	1.650	1.150	0.870	0.600
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Multi Core Armoured Cables

Cable	4 x 95	4 x 120	4 x 150	4 x 185	4 x 240	4 x 300	4 x 400	5 x 1.5	5 x 2.5	5 x 4	5 x 6	5 x 10	5 x 16	5 x 25
Stranding mm	19/2.52	37/2.03	37/2.25	37/2.52	61/2.25	61/2.52	61/2.85	7/0.53	7/0.67	7/0.85	7/1.04	7/1.35	7/1.70	7/2.14
Diameter over Inner Sheath (min/max) mm	31.2/33.2	35.2/37.2	39.1/41.1	43.7/45.7	49.6/51.6	54.7/56.7	61.7/63.7	8.7/10.7	10.5/12.5	12.0/14.0	13.5/15.5	16.2/18.2	19.0/21.0	23.7/25.7
Diameter over Armour/Braid (min/max) mm	35.2/37.2	40.2/42.2	44.1/46.1	48.7/50.7	54.6/56.6	59.7/61.7	68.0/70.0	10.5/12.5	12.3/14.3	13.8/15.8	16.0/18.0	18.7/20.7	22.2/24.2	26.9/28.9
Thickness of Armour/ Braid mm	2.0	2.5	2.5	2.5	2.5	2.5	3.15	0.9	0.9	0.9	1.25	1.25	1.6	1.6
Thickness of Outer Sheath mm	2.2	2.3	2.4	2.6	2.7	2.9	3.2	1.4	1.4	1.5	1.5	1.6	1.7	1.8
Overall Diameter (min/max) mm	39.6/41.6	44.8/46.8	48.9/50.9	53.9/55.9	60.0/62.0	65.5/67.5	74.4/76.4	13.3/15.3	15.1/17.1	16.8/18.8	19.0/21.0	21.9/23.9	25.6/27.6	30.5/32.5
Gland Size	D	D	D	E	E	F	F	O	A	A	B	B	C	C
Weight kg/km	5390	6980	8300	10070	12680	15380	19950	380	480	600	840	1130	1700	2320
Bend Radius - xOD	8	8	8	8	8	8	8	6	6	6	6	6	6	8
Conductor Temperature Limits - (min/max)°C	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90
Max. Conductor Resistance @ 20°C - ohms/Km	0.193	0.150	0.120	0.099	0.075	0.060	0.047	12.100	7.410	4.610	3.080	1.830	1.150	0.727
Nominal Voltage Drop mV/A/km	0.450	0.370	0.300	0.260	0.210	0.185	0.170	27.000	17.000	10.000	6.800	4.100	2.500	1.650
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black

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Multi Core Armoured Cables

Cable	7 x 1.5	7 x 2.5	7 x 4	12 x 1.5	12 x 2.5	19 x 1.5	19 x 2.5	27 x 1.5	27 x 2.5	37 x 1.5	37 x 2.5	48 x 1.5	48 x 2.5
Stranding mm	7/0.53	7/0.67	7/0.85	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67	7/0.53	7/0.67
Diameter over Inner Sheath (min/max) mm	9.9/11.9	11.1/13.1	13.2/15.2	13.4/15.4	15.2/17.2	16.0/18.0	18.5/20.5	19.9/21.9	22.5/24.5	22.5/24.5	25.4/27.4	24.9/26.9	30.3/32.3
Diameter over Armour/Braid (min/max) mm	11.7/13.7	12.9/14.9	15.7/17.7	15.9/17.9	17.7/19.7	18.5/20.5	21.7/23.7	23.1/25.1	25.7/27.7	25.7/27.7	28.6/30.6	28.1/30.1	34.3/36.3
Thickness of Armour/Braid mm	0.9	0.9	1.25	1.25	1.25	1.25	1.6	1.6	1.6	1.6	1.6	1.6	2.0
Thickness of Outer Sheath mm	1.6	1.6	1.5	1.65	1.85	1.85	1.95	1.9	2.0	1.95	2.1	1.8	2.0
Overall Diameter (min/max) mm	14.9/16.9	16.1/18.1	18.7/20.7	19.2/21.2	21.4/23.4	22.2/24.2	25.6/27.6	26.9/28.9	29.7/31.7	29.6/31.6	32.8/34.8	31.7/33.7	38.3/40.3
Gland Size	A	A	B	B	B	B	C	C	C	C	C2	C2	C2
Weight kg/km	440	560	700	730	950	940	1420	1320	1830	1650	2200	2000	3010
Bend Radius - xOD	6	6	6	6	6	6	6	6	6	6	6	6	6
Conductor Temperature Limits - (min/max)°C	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90	-15/+90
Max. Conductor Resistance @ 20°C -- ohms/Km	12.100	7.410	4.610	12.100	7.410	12.100	7.410	12.100	7.410	12.100	7.410	12.100	7.410
Nominal Voltage Drop mV/A/m	27.000	17.000	10.000	27.000	17.000	27.000	17.000	27.000	17.000	27.000	17.000	27.000	17.000
Sheath Colour	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black