

ALUMINIUM XLPE Insulated PVC Sheathed Cable



APPLICATION

Power cables with thermosetting insulation for main distribution in industry and elsewhere. Suitable for installation in the ground, ducts or in air.

CHARACTERISTICS

Voltage Rating U_0/U
600/1000V

Temperature Rating

Minimum Bending Radius

CONSTRUCTION

Conductor
Aluminium

Insulation
Extruded XLPE (cross-linked polyethylene)

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Steel wire Armoured)

Sheath
PVC (Polyvinyl Chloride)

STANDARDS

BS 5467



CORE IDENTIFICATION

2 Core: Red Black

3 Core: Red Yellow Blue

4 Core: Red Yellow Blue Black

Green/Yellow

Alternative Core Identification

White cores with Black numbers

Sheath Colour

Black



DIMENSIONS

NUMBER OF CORES	NOMINAL AREA OF CONDUCTOR	INSULATION THICKNESS	ARMOUR WIRE DIAMETER	APPROX. DIAMETER UNDER ARMOUR	APPROX. OVERALL	APPROX. CABLE	MAXIMUM RESISTANCE OF CONDUCTOR		REACTANCE	IMPEDANCE	STAR CAPACITANCE	GROSS CROSS-SECTIONAL AREA OF ARMOUR	MAXIMUM ARMOUR RESISTANCE AT 20°C
							DC AT 20°C	AC AT 90°C					
REFERENCE NUMBER	mm ²	mm	mm	mm	mm	kg/km	ohms/km	ohms/km	ohms/km	ohms/km	µF/km	mm ²	ohms/km
Two Core Steel Wire Armour	•16	0.7	1.25	13.7	19.2	650	1.910	2.4233	0.079	2.425	0.34	40	3.90
	•25	0.9	1.25	16.7	22.4	860	1.200	1.5387	0.080	1.541	0.34	40	3.90
	•35	0.9	1.6	19.1	25.7	1270	0.868	1.1131	0.077	1.116	0.37	54	2.90
	50	1.0	1.6	16.7	23.5	1100	0.641	0.8221	0.077	0.826	0.40	60	2.60
	70	1.1	1.6	19.3	26.3	1400	0.443	0.5697	0.075	0.575	0.44	70	2.30
95	1.1	2.0	22.0	30.0	1900	0.320	0.4096	0.073	0.416	0.48	100	1.60	
Three Core Steel Wire Armour	•16	0.7	1.25	14.7	20.4	780	1.910	2.4233	0.079	2.425	0.34	42	3.7
	•25	0.9	1.25	18.3	24.9	1160	1.200	1.5387	0.080	1.541	0.33	58	2.7
	•35	0.9	1.6	20.5	27.3	1410	0.868	1.1131	0.077	1.116	0.37	64	2.5
	50	1.0	1.6	20.0	26.8	1400	0.641	0.8221	0.077	0.826	0.40	72	2.2
	70	1.1	1.6	23.2	30.2	1800	0.443	0.5697	0.075	0.575	0.44	84	1.9
	95	1.1	2.0	26.6	34.8	2400	0.320	0.4096	0.073	0.416	0.48	119	1.4
	120	1.2	2.0	29.4	37.8	2800	0.253	0.3251	0.073	0.333	0.50	131	1.2
	150	1.4	2.5	33.1	42.7	3700	0.206	0.2651	0.074	0.257	0.48	181	0.86
	185	1.6	2.5	36.9	46.7	4300	0.164	0.2114	0.074	0.224	0.49	206	0.76
	240	1.7	2.5	41.3	51.5	5100	0.125	0.1606	0.073	0.176	0.52	230	0.68
300	1.8	2.5	45.8	56.2	6000	0.100	0.1297	0.072	0.148	0.54	250	0.63	
Four Core Steel Wire Armour	•16	0.7	1.25	16.2	21.9	850	1.910	2.4234	0.079	2.425	0.34	46	3.40
	•25	0.9	1.25	20.3	26.9	1290	1.200	1.5387	0.080	1.541	0.33	66	2.4
	•35	0.9	1.6	22.7	29.5	1560	0.868	1.1131	0.077	1.116	0.37	72	2.2
	50	1.0	1.6	23.0	30.6	1700	0.641	0.8221	0.077	0.826	0.40	82	1.9
	70	1.1	1.6	27.1	35.3	2400	0.443	0.5697	0.075	0.575	0.42	122	1.3
	95	1.1	2.0	30.0	39.0	2900	0.320	0.4096	0.073	0.416	0.48	135	1.2
	120	1.2	2.0	34.4	44.0	3800	0.253	0.3251	0.073	0.333	0.49	191	0.82
	150	1.4	2.5	38.1	47.9	4400	0.206	0.2651	0.074	0.257	0.48	211	0.74
	185	1.6	2.5	42.5	52.7	5200	0.164	0.2114	0.074	0.224	0.49	235	0.67
	240	1.7	2.5	48.1	58.5	6300	0.125	0.1606	0.073	0.176	0.51	265	0.59
	300	1.8	2.5	53.0	63.8	7400	0.100	0.1297	0.072	0.148	0.54	289	0.5

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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