

Flexible Trailing Cables Type 7M

BS 6708

CABLE DESCRIPTION

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For use with Coalcutters and similar face equipment.

Flexible Tinned Annealed Copper (TAC) Conductors, MEPR Insulated, 3 Copper/Nylon Screened Power Cores Plus 1 Screened Pilot Unit, Laid up Around a PCP Centre, Sheathed Overall with a Heavy Duty Flame retardent Elastomeric Compound. The Pilot Unit has 1 MEPR Insulated and Screened Conductor, Insulated/Screened to the same Diameter as the Screened Phase Cores.



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Description Details

Item	Description	Details
1	Phase Conductor	(3 off) TAC Flex Conductor
2	Phase Insulation	Coloured Extruded MEPR cores
3	Phase Core Screen	Composite Copper/Nylon Braid
4	Earth Conductor	(1 off) TAC Flex Conductor
5	Pilot Conductor	(1 off) TAC Flex Conductor
6	Pilot Insulation	Blue Extruded MEPR
7	Pilot Screen	Composite Copper/Nylon Braid
8	Lay Up	3 Power Cores 1 Pilot Core Laid Up Around the Uninsulated Earth Core
9	Overall Sheath	Extruded Heavy Duty PCP (Black)

Phase Conductor

Cable size mm ²	Number and nom size of conductor mm ²	Conceptual stranding mm	Nominal conductor diameter mm	Diameter over insulation Nom mm	Diameter over copper/nylon screen Nom mm
16	3 x 16	126/0.40	5.50	8.85	11.15
25	3 x 25	196/0.40	6.75	10.35	12.65
35	3 x 35	276/0.40	8.00	11.60	13.90
50	3 x 50	396/0.40	9.75	13.60	15.90
70	3 x 70	360/0.50	11.60	15.70	18.00
95	3 x 95	475/0.50	12.75	17.25	19.55
120	3 x 120	608/0.50	15.10	20.05	22.35
150*	3 x 150	740/0.50	17.00	22.20	24.50

Earth Conductor

Cable size mm ²	Number and nom. size of conductor mm ²	Conceptual conductor stranding mm	Nominal conductor diameter mm
16	1 x 16	126/0.40	5.50
25	1 x 16	126/0.40	5.50
35	1 x 18	147/0.40	6.00
50	1 x 25	196/0.40	6.75
70	1 x 35	276/0.40	8.00
95	1 x 50	396/0.40	9.75
120	1 x 50	396/0.40	9.75
150*	1 x 70	360/0.50	11.60

Pilot Conductor

Cable size mm ²	Number and nom. size of conductor mm	Conceptual conductor stranding mm	Nominal conductor diameter mm	Diameter over insulation Nom mm	Diameter over copper/nylon screen Nom mm
16	1 x 16	126/0.40	5.50	8.85	11.15
25	1 x 25	196/0.40	6.75	10.35	12.65
35	1 x 35	276/0.40	8.00	11.60	13.90
50	1 x 50	396/0.40	9.75	13.60	15.90
70	1 x 70	360/0.50	11.60	15.70	18.00
95	1 x 95	475/0.50	12.75	17.25	19.55
120	1 x 120	608/0.50	15.10	20.05	22.35
150*	1 x 150	740/0.50	17.00	22.20	24.50

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Cable Details

Cable size mm ²	Overall diameter- minimum mm	Overall diameter- maximum mm	Minimum bending radius mm	Maximum pulling tension Kgf	Approximate cable weight Kg/Km
16	35.8	38.6	309	480	2440
25	39.7	42.9	343	696	3030
35	43.1	46.3	370	948	3660
50	48.5	51.8	414	1350	4730
70	55.1	55.8	470	1890	6200
95	62.4	66.1	529	2000	8080
120	68.0	72.5	580	2000	9610
150*	70.4	78.4	627	2000	11450

Electrical Details

Cable size mm ²	Continuous current rating at 25°C Ambient Amps	Intermittent current rating at 25°C Ambient Amps	Maximum d.c. resistance at 20°C:			Nominal reactance at 50 Hz Ohms/Km	Nominal reactance at 60 Hz Ohms/Km	Minimum insulation resistance at 20°C Megohms.Km	3 Phase volt drop based on full load current mV/A/Mt
			Power conductor Ohms/Km	Pilot conductor Ohms/Km	4 screens and earth in parallel Ohms/Km				
16	85	96	1.240	1.240	0.580	0.109	0.131	435	2.62
25	110	125	0.795	0.795	0.470	0.107	0.128	375	1.68
35	135	150	0.565	0.565	0.450	0.101	0.121	325	1.20
50	170	200	0.393	0.393	0.380	0.098	0.118	285	0.84
70	205	250	0.277	0.277	0.270	0.095	0.114	260	0.61
95	250	310	0.210	0.210	0.230	0.094	0.113	250	0.47
120	295	355	0.164	0.164	0.210	0.092	0.110	250	0.38
150*	320	385	0.132	0.132	0.158	0.080	0.096	250	0.32

Ordering Information

Cable size mm ²	Reference/Description
16	FCT-M101-099-002
25	FCT-M101-086-002
35	FCT-M101-105-002
50	FCT-M101-084-002
70	FCT-M101-085-002
95	FCT-M101-114-002
120	FCT-M101-121-002
150*	FCT-M101-127-002

*Designed generally in accordance with BS6708, but not included in this specification.



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