

Flexible Trailing Cable Type 7

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 Unscreened Pilot Core, Laid Up Around a Flexible TAC Bare Earth Conductor, Sheathed Overall with a Heavy Duty Flame Retardant Elastomeric Compound. The Pilot Unit has a 1 MEPR Insulated Unscreened Conductor, Insulated to the same Diameter as the Screened Phase Cores.



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK

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TECHNICAL DATA

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	Lay Up	3 Power Cores 1 Pilot Core Laid Up Around the Uninsulated Earth Core
8	Overall Sheath	Extruded Heavy Duty PCP (Black)

Phase Conductor

Cables size mm ²	Number and nom. size of conductors mm ²	Conceptual conductor 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

Cables size mm ²	Number and nom. size of conductors 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 conductors mm ²	Conceptual conductor stranding mm	Nominal conductor diameter mm	Diameter over insulation Nom mm
16	1 x 16	126/0.40	5.50	10.85
25	1 x 16	126/0.40	5.50	12.35
35	1 x 16	126/0.40	5.50	13.60
50	1 x 25	196/0.40	6.75	15.60
70	1 x 35	276/0.40	8.00	17.70
95	1 x 50	396/0.40	9.75	19.25
120	1 x 70	360/0.50	11.60	22.05
150*	1 x 95	475/0.50	12.75	24.20

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Cable size mm ²	Overall diameter- minimum mm	Overall diameter- maximum mm	Minimum bending radius mm	Maximum pulling tensions kgf	Approximate cable weight kg/m
16	35.8	38.6	309	480	2340
25	39.7	42.9	343	642	2860
35	43.1	46.3	370	834	3410
50	48.5	51.8	414	1200	4420
70	55.1	55.8	470	1680	5800
95	62.4	66.1	529	2000	7600
120	68.0	72.5	580	2000	9090
150*	70.4	78.4	627	2000	10900

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
			Power conductor Ohms/Km	Pilot conductor Ohms/Km	3 screens and earth in parallel Ohms/Km			
16	85	96	1.240	1.240	0.660	0.109	0.131	435
25	110	125	0.795	1.240	0.560	0.107	0.128	375
35	135	150	0.565	1.240	0.540	0.101	0.121	325
50	170	200	0.393	0.795	0.440	0.098	0.118	285
70	205	250	0.277	0.565	0.300	0.095	0.114	260
95	250	310	0.210	0.393	0.260	0.094	0.113	250
120	295	355	0.164	0.277	0.240	0.092	0.110	250
150*	320	385	0.132	0.210	0.176	0.080	0.096	250

Ordering Information

Cable size mm ²	Reference/Description
16	FCT-M101 089-002
25	FCT-M101-078-002
35	FCT-M101-077-002
50	FCT-M101 075-002
70	FCT-M101-076-002
95	FCT-M101-094-002
120	FCT-M101 117-002
150*	FCT-M101-128-002

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



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