

BS6708 Type 7M Mining Cable EPR, CP - 16mm to 150mm



Cleveland Cable Company can supply a range of mine and quarry cable. Type 7M mining cable is generally used in deep mines where explosive gasses and dust can accumulate and on surface for supplying excavating, crushing machines and equipment.

Key Features



Voltage Rating
640V To 1100V

Construction

- **Conductor:** Electrolytic stranded tinned copper wire IEC 60228 Class 5
- **Insulation:** Ethylene propylene rubber (EPR)
Ground core is not insulated
- **Bedding:** Rubber based bedding compound
- **Screen:** Tinned copper / Nylon braided screen over phase and pilot cores.
- **Sheath:** Heavy duty chloroprene outer sheath
- **Layup:** All cores are laid up in contact with the bare copper earth conductor
- **Separator:** Colored Textile tape for core identification.

Standards

- BS 6708

Core Colours

Three phase cores and one pilot core all with composite individual screens laid up in contact with each other and the bare earth conductor in the centre.

BS6708 Type 7M Mining Cable EPR, CP - 16mm to 150mm - Dimensions

Reference	Phase Conductor Size	Bare Earth Cond Size	Stranding(mm)	No of Phase Cores	Pilot Cond Size	Max Overall Dia	Minimum Bending Radius	Weight(Kg/Km)
TYPE7M3X150	150	70	740/0.50	3	150	78.4	627	11800
TYPE7M3X120	120	50	629/0.50	3	120	72.5	580	9900
TYPE7M3X95	95	50	475/0.50	3	95	66.1	529	8200
TYPE7M3X70	70	35	360/0.50	3	70	58.5	470	6350
TYPE7M3X50	50	25	396/0.40	3	50	51.8	414	4700
TYPE7M3X35	35	18	276/0.40	3	35	46.3	370	3650
TYPE7M3X25	25	16	196/0.40	3	16	42.9	343	3150
TYPE7M3X16	16	16	126/0.40	3	16	38.6	309	2500

BS 6708 TYPE 7M MINING CABLE 1100V - ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	NUMBER OF CORES	CONTINUOUS CURRENT RATING	PHASE CONDUCTOR RESISTANCE	PILOT CONDUCTOR RESISTANCE	4 SCREEN & EARTH IN PARALLEL	NOMINAL REACTANCE AT 50HZ	NOMINAL REACTANCE AT 60HZ	INSULATION RESISTANCE AT 20°C	3 PHASE VOLTAGE DROP ON FULL LOAD
(MM²)		(AMPS)	(Ω/KM)	(Ω/KM)	(Ω/KM)	(Ω/KM)	(Ω/KM)	(MΩ/KM)	(MV/A/M)
16	3	85	1.24	1.24	0.58	0.109	0.131	435	2.62
25	3	110	0.795	1.24	0.47	0.107	0.128	375	1.68
35	3	135	0.565	1.24	0.45	0.101	0.121	325	1.2
50	3	170	0.393	0.795	0.38	0.098	0.118	285	0.84
70	3	205	0.277	0.565	0.27	0.095	0.114	260	0.61
95	3	250	0.21	0.393	0.23	0.094	0.113	250	0.47
120	3	295	0.164	0.277	0.241	0.092	0.11	250	0.38
150	3	320	0.132	0.21	0.132	0.08	0.096	250	0.32

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