

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



Cleveland Cable Company can supply a range of mine and quarry cable. Type 7 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



#### Installation Guidelines

Should not be installed at temperatures below 5°C or above 60°C



#### Voltage Rating

640V To 1100V



#### Minimum Bending Radius

As Per Manufacturers Datasheet

### 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 cores. Pilot core is not screened.
- **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 with composite individual screens and one unscreened pilot core laid up in contact with each other and the bare earth conductor in the centre.

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

Reference	Phase Conductor Size	No Of Cores	Bare Earth Cond Size	Stranding(mm)	No of Phase Cores	Pilot Cond Size	Max Overall Dia	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km )
TYPE73X150	150	3	70	740/0.50	3	95	78.4	627	78.4	11500
TYPE73X120	120	3	50	629/0.50	3	70	72.5	580	72.5	9650
TYPE73X95	95	3	50	475/0.50	3	50	66.1	529	66.1	7900
TYPE73X70	70	3	35	360/0.50	3	35	58.5	470	58.5	6200
TYPE73X50	50	3	25	396/0.40	3	25	51.8	414	51.8	4600
TYPE73X35	35	3	18	276/0.40	3	16	46.3	370	46.3	3520
TYPE73X25	25	3	16	196/0.40	3	16	42.9	343	42.9	2950
TYPE73X16	16	3	16	126/0.40	3	16	38.6	309	38.6	2400

BS 6708 TYPE 7 MINING CABLE 1100V - ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	NUMBER OF CORES	CONTINUOUS CURRENT RATING	PHASE CONDUCTOR RESISTANCE	PILOT CONDUCTOR RESISTANCE	3 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	0.66	0.109	0.131	435	2.62
25	3	110	0.795	1.24	0.56	0.107	0.128	375	1.68
35	3	135	0.565	1.24	0.54	0.101	0.121	325	1.2
50	3	170	0.393	0.795	0.44	0.098	0.118	285	0.84
70	3	205	0.277	0.565	0.3	0.095	0.114	260	0.61
95	3	250	0.21	0.393	0.26	0.094	0.113	250	0.47
120	3	295	0.164	0.277	0.24	0.092	0.11	250	0.38
150	3	320	0.132	0.21	0.176	0.08	0.096	250	0.32

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