BS6708 Type 7M Mining Cable EPR, CP - 16mm² to 150mm²

Description

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

Minimum Bending Radius
12 x Overall Diameter

Temperature Limits
Fixed: -40°C to +80°C
Flexing: -25°C to +80°C
Maximum Short Circuit Temperature: +200°C

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.

Standards

- BS 6708
- BS EN/IEC 60228

Construction

- **Conductor**: Class 5 Flexible Tinned Copper
- **Insulation**: Ethylene propylene rubber (EPR) Ground core is not insulated
- **Separator**: Colored Textile tape for core identification.
- **Screen**: Tinned copper / Nylon braided screen over phase and pilot cores.
- **Layup**: All cores are laid up in contact with the bare copper earth conductor
- **Bedding**: Rubber based bedding compound
- **Armour**: Pliable Galvanised steel wire armour (SWA)
- **Outer Sheath**: Heavy Duty Polychloroprene (HDPCP)
- **Sheath Colour**: Black

QA Lab

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

BS6708 Type 7M Mining Cable EPR, CP - 16mm² to 150mm² - Dimensions

Reference	Phase Conductor Size (mm2)	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
(MM^2)		(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