CLEVELAND CABLE COMPANY
A WORLD POWER IN CABLE SUPPLY

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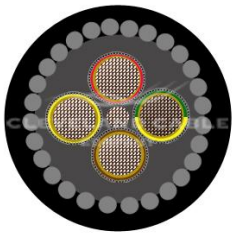
BS 6708 TYPE 7M MINING CABLE 1100V



APPLICATION

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.

CABLE STANDARDS

BS 6708

CONSTRUCTION

CONDUCTOR :
Electrolytic, stranded, tinned copper wire IEC 60228 Class 5

INSULATION :
Ethylene propylene rubber (EPR) Ground core is not insulated.

SEPERATOR :
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.

OUTER SHEATH :
Heavy duty chloroprene outer sheath.

CHARACTERISTICS

Voltage Rating
640V to 1100V

Temperature Rating
Fixed: -20°C to +85°C

Minimum Bending Radius
As per cable manufacturer datasheet

Core Identification
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.

Should not be installed at temperatures below 5^{O}C or above 60^{O}C

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BS 6708 TYPE 7M MINING CABLE 1100V - DIMENSIONS

CCC CODE	PHASE CONDUCTOR SIZE (MM^2)	NO OF PHASE CORES	BARE EARTH CONDUCTOR SIZE	PILOT CONDUCTOR SIZE	STRANDING (MM)	MINIMUM BENDING RADIUS (MM)	WEIGHT (Kg/Km)	MAX OVERALL DIAMETER (MM)
TYPE7M3X16	16	3	16	16	126/0.40	309	2500	38.6
TYPE7M3X25	25	3	16	25	196/0.40	343	3150	42.9
TYPE7M3X35	35	3	18	35	276/0.40	370	3650	46.3
TYPE7M3X50	50	3	25	50	396/0.40	414	4700	51.8
TYPE7M3X70	70	3	35	70	360/0.50	470	6350	58.5
TYPE7M3X95	95	3	50	95	475/0.50	529	8200	66.1
TYPE7M3X120	120	3	50	120	608/0.50	580	9900	72.5
TYPE7M3X150	150	3	70	150	740/0.50	627	11800	78.4

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

CCC CODE	CONTINUOUS CURRENT RATING (AMPS)	PHASE CONDUCTOR RESISTANCE (Ω)/KM	PILOT CONDUCTOR RESISTANCE (Ω)/KM	4 SCREEN & EARTH IN PARALLEL (Ω)/KM	NOMINAL REACTANCE AT 50Hz (Ω)/KM	NOMINAL REACTANCE AT 60Hz (Ω)/KM	INSULATION RESISTANCE AT 20^0C M(Ω)/KM	3 PHASE VOLTAGE DROP ON FULL LOAD MV/A/M
TYPE7M3X16	85	1.24	1.24	0.58	0.109	0.131	435	2.62
TYPE7M3X25	110	0.795	0.795	0.47	0.107	0.128	375	1.68
TYPE7M3X35	135	0.565	0.565	0.45	0.101	0.121	325	1.2
TYPE7M3X50	170	0.393	0.393	0.38	0.098	0.118	285	0.84
TYPE7M3X70	205	0.277	0.277	0.27	0.095	0.114	260	0.61
TYPE7MX95	250	0.210	0.210	0.23	0.094	0.113	250	0.47
TYPE7M3X120	295	0.164	0.164	0.241	0.092	0.110	250	0.38
TYPE7M3X150	320	0.132	0.132	0.158	0.080	0.096	250	0.32