CLEVELAND CABLE COMPANY

BS6708 Type 307 Mining Cable - EPR, CP - 25mm to 150mm

Cleveland Cable Company can supply a range of mine and quarry cable. Type 307 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
Recommended for installation at temperatures between 5°C or above 60°C

Voltage Rating
1900/3300 Volts

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 307 Mining Cable - EPR, CP - 25mm to 150mm - Dimensions

Reference	Phase Conductor Size	No Of Cores	Bare Earth Cond Size	Stranding(mm)	No of Phase Cores	Pilot Cond Size	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)
TYPE3073X150	150	3	95	756/0.50	95	756/0.50	13000	79.7	13000
TYPE3073X120	120	3	70	608/0.50	70	608/0.5	11200	77.2	11200
TYPE3073X95	95	3	50	475/0.50	50	475/0.5	9250	72.7	9250
TYPE3073X70	70	3	35	360/0.50	50	360/0.5	7600	65.8	7600
TYPE3073X50	50	3	25	396/0.40	35	396/0.4	6150	59.8	6150
TYPE3073X35	35	3	16	276/0.40	25	276/0.4	4800	54.6	4800
TYPE3073X25	25	3	16	196/0.40	25	196/0.64	4000	49.9	4000

BS 6708 TYPE 307 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
(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	0.66	0.109	0.131	435	2.62
25	3	110	0.795	1.24	0.50	0.125	0.150	1250	1.69
35	3	135	0.565	1.24	0.50	0.117	0.141	100	1.21
50	3	170	0.393	0.795	0.35	0.113	0.136	950	0.85
70	3	205	0.277	0.565	0.35	0.108	0.129	820	0.61
95	3	250	0.210	0.393	0.28	0.105	0.126	720	0.48
120	3	295	0.164	0.277	0.28	0.101	0.121	660	0.39
150	3	320	0.132	0.210	0.14	0.098	0.118	600	0.32