

BS 6708 TYPE 307 MINING CABLE 3300V



APPLICATION

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.

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 cores. Pilot core is not screened.

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

1900V to 3300V

Temperature Rating

Fixed: -20°C to +85°C

Minimum Bending Radius

As per cable manufacturer datasheet

Core Identification

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.

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

BS 6708 TYPE 307 MINING CABLE 3300V - DIMENSIONS

CCC CODE	PHASE CONDUCTOR SIZE (MM ²)	NO OF PHASE CORES	BARE EARTH CONDUCTOR SIZE	PILOT CONDUCTOR SIZE	PHASE CORE STRANDING (MM)	MINIMUM BENDING RADIUS (MM)	WEIGHT (Kg/Km)	MAX OVERALL DIAMETER (MM)
TYPE3073x25	25	3	25	16	196/0.40	400	4000	49.9
TYPE3073x35	35	3	25	16	276/0.40	440	4800	54.6
TYPE3073x50	50	3	35	25	396/0.40	480	6150	59.8
TYPE3073x70	70	3	50	35	360/0.50	525	7600	65.8
TYPE3073x95	95	3	50	50	475/0.50	580	9250	72.7
TYPE3073x120	120	3	70	70	608/0.50	615	11200	77.2
TYPE3073x150	150	3	95	95	756/0.50	640	13000	79.7

BS 6708 TYPE 307 MINING CABLE 3300V - ELECTRICAL CHARACTERISTICS

CCC CODE	CONTINUOUS CURRENT RATING (AMPS)	PHASE CONDUCTOR RESISTANCE (Ω)/KM	PILOT CONDUCTOR RESISTANCE (Ω)/KM	3 SCREEN & EARTH IN PARALLEL (Ω)/KM	NOMINAL REACTANCE AT 50Hz (Ω)/KM	NOMINAL REACTANCE AT 60Hz (Ω)/KM	INSULATION RESISTANCE AT 20°C M(Ω)/KM	3 PHASE VOLTAGE DROP ON FULL LOAD MV/A/M
TYPE3073X25	110	0.795	1.24	0.50	0.125	0.150	1250	1.69
TYPE3073X35	135	0.565	1.24	0.50	0.117	0.141	100	1.21
TYPE3073X50	170	0.393	0.795	0.35	0.113	0.136	950	0.85
TYPE3073X70	205	0.277	0.565	0.35	0.108	0.129	820	0.61
TYPE3073X95	250	0.210	0.393	0.28	0.105	0.126	720	0.48
TYPE3073X120	295	0.164	0.277	0.28	0.101	0.121	660	0.39
TYPE3073X150	320	0.132	0.210	0.14	0.098	0.118	600	0.32

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