

BS6708 Type 307 Mining Cable - EPR, CP - 25mm² to 150mm²



Description

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



Voltage Rating
1900/3300 Volts



Minimum Bending Radius
8 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 with composite individual screens and one unscreened pilot core laid up in contact with each other and the bare earth conductor in the centre.

Standards

- BS EN/IEC 60228
- BS 6708

Construction

- **Conductor:** Class 5 tinned flexible stranded copper wire
- **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 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 Polychloroprene (HDPCP)
- **Sheath Colour:** Red

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 307 Mining Cable - EPR, CP - 25mm² to 150mm² - Dimensions

Reference	No Of Cores	Phase Conductor Size (mm ²)	Bare Earth Cond Size	Stranding(mm)	No of Phase Cores	Pilot Cond Size	Minimum Bending Radius	Overall Diameter(mm)	Weight(Kg/Km)
TYPE3073X150	3	150	95	756/0.50	95	756/0.50	13000	79.7	13000
TYPE3073X120	3	120	70	608/0.50	70	608/0.5	11200	77.2	11200
TYPE3073X95	3	95	50	475/0.50	50	475/0.5	9250	72.7	9250
TYPE3073X70	3	70	35	360/0.50	50	360/0.5	7600	65.8	7600
TYPE3073X50	3	50	25	396/0.40	35	396/0.4	6150	59.8	6150
TYPE3073X35	3	35	16	276/0.40	25	276/0.4	4800	54.6	4800
TYPE3073X25	3	25	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

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