

BS6708 Type 331 Mining Cable - EPR, SWA, CP - 25mm² to 120mm²



Description

Cleveland Cable Company can supply a range of mine and quarry cable. Type 331 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. Can be used as a trailing cable in quarries.

Key Features



Voltage Rating
1900/3300 Volts



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, all with composite individual screens and one unscreened earth core laid up in contact with each other.

Standards

- BS 6708
- BS EN/IEC 60228

Construction

- **Conductor:** Class 5 tinned flexible stranded copper wire
- **Insulation:** EPR (Ethylene Propylene Rubber)
- **Screen:** Tinned copper / Nylon braided screen over phase cores. Ground core is not screened.
- **Layup:** All cores are laid up in contact with each other.
- **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

ecovadis

BS6708 Type 331 Mining Cable - EPR, SWA, CP - 25mm² to 120mm² - Dimensions

| Reference | Conductor Size (mm2) | Phase Conductor Size (mm2) | No Of Cores | Unscreened Earth Conductor Size | Stranding(mm) | No of Phase Cores | Minimum Bending Radius | Overall Diameter(mm) | Weight(Kg/Km) |
|--------------|----------------------|----------------------------|-------------|---------------------------------|---------------|-------------------|------------------------|----------------------|----------------|
| TYPE3313X25 | 25 | 3 | 3 | 196/0.4 | 196/0.40 | 16 | 6800 | 61.6 | 6800 |
| TYPE3313X35 | 35 | 3 | 3 | 276/0.4 | 276/0.40 | 25 | 8500 | 68.4 | 8500 |
| TYPE3313X50 | 50 | 3 | 3 | 396/0.4 | 396/0.40 | 35 | 9750 | 73.8 | 9750 |
| TYPE3313X70 | 70 | 3 | 3 | 360/0.5 | 360/0.50 | 50 | 15600 | 84.6 | 15600 |
| TYPE3313X95 | 95 | 3 | 3 | 475/0.5 | 475/0.50 | 70 | 18100 | 90.7 | 18100 |
| TYPE3313X120 | 120 | 3 | 3 | 608/0.5 | 608/0.50 | 70 | 20250 | 95.2 | 20250 |



BS 6708 TYPE 331 MINING CABLE 1100V - ELECTRICAL CHARACTERISTICS

| CONDUCTOR SIZE | NUMBER OF CORES | CONTINUOUS CURRENT RATING | PHASE CONDUCTOR RESISTANCE | EARTH CONDUCTOR RESISTANCE | ARMOUR RESISTANCE | 3 SCREENED CONDUCTORS IN PARALLEL | INSULATION RESISTANCE AT 20°C | 3 PHASE VOLTAGE DROP ON FULL LOAD |
|--------------------|-----------------|---------------------------|----------------------------|----------------------------|-------------------|-----------------------------------|-------------------------------|-----------------------------------|
| (MM ²) | | (AMPS) | (Ω/KM) | (Ω/KM) | (Ω/KM) | (Ω/KM) | (MΩ/KM) | (MV/A/M) |
| 25 | 3 | 110 | 0.795 | 1.24 | 0.965 | 1.35 | 375 | 1.68 |
| 35 | 3 | 135 | 0.565 | 0.795 | 0.844 | 0.80 | 325 | 1.20 |
| 50 | 3 | 170 | 0.393 | 0.565 | 0.715 | 0.70 | 285 | 0.84 |
| 70 | 3 | 205 | 0.277 | 0.393 | 0.488 | 0.69 | 260 | 0.61 |
| 95 | 3 | 250 | 0.210 | 0.277 | 0.382 | 0.64 | 250 | 0.47 |
| 120 | 3 | 295 | 0.164 | 0.277 | 0.299 | 0.55 | 250 | 0.38 |

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