
# BS 6708 TYPE 7 POWER SUPPLY CABLE FOR COALCUTTERS AND OTHER MACHINES


**CONSTRUCTION DESCRIPTION:**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.

**CABLE STRUCTURE :1- CONDUCTOR :** Electrolytic, stranded, tinned copper wire IEC 60228 Class 5 ,**2- INSULATION :** EPR (Ground core is not insulated).**3- SEPERATOR :** Colored Textile tape for core identification.**4- SCREEN :** Tinned copper / Nylon braided screen over phase cores. Pilot core is not screened.**5- LAYUP :** All cores are laid up in contact with the bare copper earth conductor.**6- BEDDING :** Rubber based bedding compound. **7- OUTER SHEATH :** Heavy duty chloroprene outer sheath.

**APPLICATION:** Used for supplying excavating, crushing machines and equipment.
**ENVIRONMENT:**Used in deep mines where explosive gasses and dust can accumulate and on surface.

| *Cross Section* | | 3x16+16+16 | 3x25+16+16 | 3x35+18+16 | 3x50+25+25 | 3x70+35+35 | 3x95+50+50 | 3x120+50+70 | 3x150+70+95 |
|---|---|---|---|---|---|---|---|---|---|
| *Phase Conductor* | | | | | | | | | |
| *Number and cross section* | $mm^2$ | 3x16 | 3x25 | 3x35 | 3x50 | 3x70 | 3x95 | 3x120 | 3x150 |
| *Stranding* | mm | 126/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 | 475/0,50 | 608/0,50 | 740/0,50 |
| *Conductor diameter* | Nom. mm | 5.50 | 6.75 | 8.00 | 9.75 | 11.60 | 12.75 | 15.10 | 17.00 |
| *Insulation diameter* | Nom. mm | 8.85 | 10.35 | 11.60 | 13.60 | 15.70 | 17.25 | 20.05 | 22.20 |
| *Screen diameter* | Nom. mm | 11.15 | 12.65 | 13.90 | 15.90 | 18.00 | 19.55 | 22.35 | 24.50 |
| *Earth Conductor* | | | | | | | | | |
| *Number and cross section* | $mm^2$ | 1x16 | 1x16 | 1x18 | 1x25 | 1x35 | 1x50 | 1x50 | 1x70 |
| *Stranding* | mm | 126/0,40 | 126/0,40 | 147/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 396/0,40 | 360/0,50 |
| *Conductor diameter* | Nom. mm | 5.50 | 5.50 | 6.00 | 6.75 | 8.00 | 9.75 | 9.75 | 11.60 |
| *Pilot Conductor* | | | | | | | | | |
| *Number and cross section* | $mm^2$ | 1x16 | 1x16 | 1x16 | 1x25 | 1x35 | 1x50 | 1x70 | 1x95 |
| *Stranding* | mm | 126/0,40 | 126/0,40 | 126/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 | 475/0,50 |
| *Conductor diameter* | Nom. mm | 5.50 | 5.50 | 5.50 | 6.75 | 8.00 | 9.75 | 11.60 | 12.75 |
| *Insulation diameter* | Nom. mm | 10.85 | 12.35 | 13.60 | 15.60 | 17.70 | 19.25 | 22.05 | 24.20 |
| *Cable details* | | | | | | | | | |
| *Min. overall diameter* | mm | 35.8 | 39.7 | 43.1 | 48.5 | 55.1 | 62.4 | 68.0 | 70.4 |
| *Max. overall diameter* | mm | 38.6 | 42.9 | 46.3 | 51.8 | 58.8 | 66.1 | 72.5 | 78.4 |
| *Min. bending radius* | mm | 309 | 343 | 370 | 414 | 470 | 529 | 580 | 627 |
| *Max. pulling tension* | kgf | 480 | 642 | 834 | 1,200 | 1,680 | 2,000 | 2,000 | 2,000 |
| *Appx. cable weight* | kg/km | 2,400 | 2,950 | 3,520 | 4,600 | 6,200 | 7,900 | 9,650 | 11,500 |
| *Copper weight* | kg/km | 1,070 | 1,330 | 1,690 | 2,320 | 3,190 | 4,300 | 5,100 | 6,500 |
| *Electrical details* | | | | | | | | | |
| *"Continuous current rating at 25°C Ambient"* | A | 85 | 110 | 135 | 170 | 205 | 250 | 295 | 320 |
| *"Intermittent current rating at 25°C Ambient"* | A | 96 | 125 | 150 | 200 | 250 | 310 | 355 | 385 |
| *Max. DC resistance at 20°C* | | | | | | | | | |
| *Phase Conductor* | Ω/km | 1.24 | 0.795 | 0.565 | 0.393 | 0.277 | 0.21 | 0.164 | 0.132 |
| *Pilot Conductor* | Ω/km | 1.24 | 1.24 | 1.24 | 0.795 | 0.565 | 0.393 | 0.277 | 0.21 |
| *3 screens and earth in parallel connection* | Ω/km | 0.66 | 0.56 | 0.54 | 0.44 | 0.3 | 0.26 | 0.24 | 0.176 |
| *Nom. reactance at 50Hz* | Ω/km | 0.109 | 0.107 | 0.101 | 0.098 | 0.095 | 0.094 | 0.092 | 0.08 |
| *Nom. reactance at 60Hz* | Ω/km | 0.131 | 0.128 | 0.121 | 0.118 | 0.114 | 0.113 | 0.11 | 0.096 |
| *Min. insulation resistance at 20°C* | MΩ/km | 435 | 375 | 325 | 285 | 0.26 | 0.25 | 250 | 250 |
| *3 phase voltage drop on full load current* | mV/A/m | 2.62 | 1.68 | 1.2 | 0.84 | 0.61 | 0.47 | 0.38 | 0.32 |

# BS 6708 TYPE 307 POWER SUPPLY CABLE FOR COALCUTTERS AND OTHER MACHINES


**CONSTRUCTION DESCRIPTION:** 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

**CABLE STRUCTURE:**

1- **CONDUCTOR** : Electrolytic, stranded, tinned copper wire IEC 60228 Class 5
2- **INSULATION** : EPR (Ground core is not insulated).
3- **SEPERATOR** : Colored Textile tape for core identification.
4- **SCREEN** : Tinned copper / Nylon braided screen over phase cores. Pilot core is not screened.
5- **LAYUP** : All cores are laid up in contact with the bare copper earth conductor.
6- **BEDDING** : Rubber based bedding compound.
7- **OUTER SHEATH** : Heavy duty chloroprene outer sheath

**CABLE PROPERTIES:** **RELATED STANDARDS :** BS 6708 , **RATED VOLTAGE :** 1,9/3,3 kV , TEST VOLTAGE : 7,5 kV

**APPLICATION :** Used for supplying excavating, crushing machines and equipment.

**ENVIRONMENT:** Used in deep mines where explosive gasses and dust can accumulate and on surface.
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| Cross Section | | 3x25+25+16 | 3x35+25+16 | 3x50+35+25 | 3x70+50+35 | 3x95+50+50 | 3x120+70+70 | 3x150+70+95 |
|---|---|---|---|---|---|---|---|---|
| *Phase Conductor* | | | | | | | | |
| *Number and cross section* | mm² | 3x25 | 3x35 | 3x50 | 3x70 | 3x95 | 3x120 | 3x150 |
| *Stranding* | mm | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 | 475/0,50 | 608/0,50 | 756/0,50 |
| *Conductor diameter* | Nom. mm | 7.00 | 8.50 | 10.00 | 11.70 | 13.50 | 15.40 | 17.20 |
| *Insulation diameter* | Nom. mm | 13.10 | 14.70 | 15.70 | 17.70 | 19.10 | 21.40 | 23.00 |
| *Screen diameter* | Nom. mm | 15.50 | 17.10 | 17.70 | 19.70 | 21.10 | 23.40 | 25.00 |
| *Earth Conductor* | | | | | | | | |
| *Number and cross section* | mm² | 1x25 | 1x25 | 1x35 | 1x50 | 1x50 | 1x70 | 1x95 |
| *Stranding* | mm | 196/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 396/0,40 | 360/0,50 | 475/0,50 |
| *Conductor diameter* | Nom. mm | 7.00 | 7.00 | 8.50 | 10.00 | 10.00 | 11.70 | 13.50 |
| *Pilot Conductor* | | | | | | | | |
| *Number and cross section* | mm2 | 1x16 | 1x16 | 1x25 | 1x35 | 1x50 | 1x70 | 1x95 |
| *Stranding* | mm | 126/0,40 | 126/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 | 475/0,50 |
| *Conductor diameter* | Nom. mm | 5.50 | 5.50 | 7.00 | 8.50 | 10.00 | 11.70 | 1.35 |
| *Insulation diameter* | Nom. mm | 11.60 | 11.60 | 13.10 | 14.70 | 15.70 | 17.70 | 19.10 |
| *Cable details* | | | | | | | | |
| *Min. overall diameter* | mm | 47.4 | 51.6 | 56.8 | 62.8 | 68.9 | 73.4 | 75.9 |
| *Max. overall diameter* | mm | 49.9 | 54.6 | 59.8 | 65.8 | 72.7 | 77.2 | 79.7 |
| *Min. bending radius* | mm | 400 | 440 | 480 | 525 | 580 | 615 | 640 |
| *Max. pulling tension* | kgf | 640 | 830 | 1,200 | 1,680 | 2,000 | 2,000 | 2,000 |
| *Appx. cable weight* | kg/km | 4,000 | 4,800 | 6,150 | 7,600 | 9,250 | 11,200 | 13,000 |
| *Copper weight* | kg/km | 1,654 | 1,948 | 2,666 | 3,482 | 4,346 | 5,450 | 6,000 |
| *Electrical details* | | | | | | | | |
| *Continuous current rating at 25°C Ambient* | A | 110 | 135 | 170 | 205 | 250 | 295 | 320 |
| *Intermittent current rating at 25°C Ambient* | A | 130 | 155 | 210 | 255 | 315 | 360 | 385 |
| *Max. DC resistance at 20°C* | | | | | | | | |
| *Phase Conductor* | Ω/km | 0.795 | 0.565 | 0.393 | 0.277 | 0.21 | 0.164 | 0.132 |
| *Pilot Conductor* | Ω/km | 1.24 | 1.24 | 0.795 | 0.565 | 0.393 | 0.277 | 0.21 |
| *3 screens and earth in parallel connection* | Ω/km | 0.5 | 0.5 | 0.35 | 0.35 | 0.28 | 0.28 | 0.14 |
| *Nom. reactance at 50Hz* | Ω/km | 0.125 | 0.117 | 0.113 | 0.108 | 0.105 | 0.101 | 0.098 |
| *Nom. reactance at 60Hz* | Ω/km | 0.15 | 0.141 | 0.136 | 0.129 | 0.126 | 0.121 | 0.118 |
| *Min. insulation resistance at 20°C* | MΩ/km | 1250 | 1100 | 950 | 820 | 720 | 660 | 600 |
| *3 phase voltage drop on full load current* | mV/A/m | 1.69 | 1.21 | 0.85 | 0.61 | 0.48 | 0.39 | 0.32 |

MINING CABLES

*POWER SUPPLY CABLE FOR COALCUTTERS AND OTHER MACHINES*

# MGM 115 TYPE 7

660/1100 V

*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.*


**APPLICATION** *Used for supplying excavating, crushing machines and equipment.*

**ENVIRONMENT** *Used in deep mines where explosive gasses and dust can accumulate and on surface.*

## CABLE STRUCTURE

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

**2- INSULATION** : *EPR (Ground core is not insulated)*

**3- SEPERATOR** : *Colored Textile tape for core identification.*

**4- SCREEN** : *Tinned copper / Nylon braided screen over phase cores. Pilot core is not screened.*

**5- LAYUP** : *All cores are laid up in contact with the bare copper earth conductor.*

**6- BEDDING** : *Rubber based bedding compound.*

**7- OUTER SHEATH** : *Heavy duty chloroprene outer sheath.*

## CABLE PROPERTIES

*RELATED STANDARDS* : MGM 115/1985

*RATED VOLTAGE* : 660/1100 V

*TEST VOLTAGE* : 2,5 kV

| Cross Section | | 3x16+16+16 | 3x25+16+16 | 3x35+18+16 | 3x50+25+25 | 3x70+35+35 | 3x95+50+50 | 3x120+50+70 |
|---|---|---|---|---|---|---|---|---|
| **Phase Conductor** | | | | | | | | |
| Number and cross section | mm² | 3x16 | 3x25 | 3x35 | 3x50 | 3x70 | 3x95 | 3x120 |
| Stranding | mm | 126/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 | 475/0,50 | 608/0,50 |
| Conductor diameter | Nom. mm | 5.50 | 6.75 | 8.00 | 9.75 | 11.60 | 12.75 | 15.10 |
| Insulation thickness | mm | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 2.0 | 2.4 |
| **Earth Conductor** | | | | | | | | |
| Number and cross section | mm² | 1x16 | 1x16 | 1x18 | 1x25 | 1x35 | 1x50 | 1x50 |
| Stranding | mm | 126/0,40 | 126/0,40 | 147/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 396/0,40 |
| Conductor diameter | Nom. mm | 5.50 | 5.50 | 6.00 | 6.75 | 8.00 | 9.75 | 9.75 |
| **Pilot Conductor** | | | | | | | | |
| Number and cross section | mm² | 1x16 | 1x16 | 1x16 | 1x25 | 1x35 | 1x50 | 1x70 |
| Stranding | mm | 126/0,40 | 126/0,40 | 126/0,40 | 196/0,40 | 276/0,40 | 396/0,40 | 360/0,50 |
| Conductor diameter | Nom. mm | 5.50 | 5.50 | 5.50 | 6.75 | 8.00 | 9.75 | 11.60 |
| Insulation thickness | mm | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 |
| **Cable details** | | | | | | | | |
| Min. overall diameter | mm | 35.8 | 39.7 | 43.1 | 48.5 | 55.1 | 62.4 | 68.0 |
| Max. overall diameter | mm | 40.6 | 44.9 | 47.3 | 53.8 | 60.8 | 68.1 | 78.0 |
| Min. bending radius | mm | 366 | 405 | 426 | 485 | 548 | 613 | 702 |
| Max. pulling tension | kgf | 480 | 642 | 834 | 1,200 | 1,680 | 2,000 | 2,000 |
| Appx. cable weight | kg/km | 2,400 | 2,950 | 3,520 | 4,600 | 6,200 | 7,900 | 9,650 |
| Copper weight | kg/km | 1,070 | 1,330 | 1,690 | 2,320 | 3,190 | 4,300 | 5,100 |
| **Electrical details** | | | | | | | | |
| *Continuous current rating at 25°C Ambient* | A | 85 | 110 | 135 | 170 | 205 | 250 | 295 |
| *Intermittent current rating at 25°C Ambient* | A | 96 | 125 | 150 | 200 | 250 | 310 | 355 |
| Max. DC resistance at 20°C | | | | | | | | |
| Phase Conductor | Ω/km | 1.24 | 0.795 | 0.565 | 0.393 | 0.277 | 0.21 | 0.164 |
| Pilot Conductor | Ω/km | 1.24 | 1.24 | 1.24 | 0.795 | 0.565 | 0.393 | 0.277 |
| 3 screens and earth in parallel connection | Ω/km | 0.7 | 0.6 | 0.6 | 0.5 | 0.34 | 0.28 | 0.26 |
| Nom. reactance at 50Hz | Ω/km | 0.109 | 0.107 | 0.101 | 0.098 | 0.095 | 0.094 | 0.092 |
| Nom. reactance at 60Hz | Ω/km | 0.131 | 0.128 | 0.121 | 0.118 | 0.114 | 0.113 | 0.11 |
| Min. insulation resistance at 20°C | MΩ/km | 435 | 375 | 325 | 285 | 0.26 | 0.25 | 250 |
| 3 phase voltage drop on full load current | mV/A/m | 2.62 | 1.68 | 1.2 | 0.84 | 0.61 | 0.47 | 0.38 |

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# AS/NZS 1802 TYPE 209

**MINING CABLES**

## UNDERGROUND COAL MINE CABLE FOR GENERAL USE

*3 phase cores with composite screens laid up around a semiconductive cradle containing a central pilot core.*

**1.1-11 kV**


### CABLE STRUCTURE

**1- CONDUCTOR** : Electrolytic, multiple-stranded circular flexible tinned copper wire (rope lay) AS/NZS 1125-2.10
**2- SEPERATOR** : Semiconducting layer (3.3/3.3kV and above)
**3- INSULATION** : R-EP-90 (acc.to AS/NZS 3808)
**4- SEPERATOR** : Semiconducting layer (3.3/3.3kV and above)
**5- SCREEN** : Tinned copper / Nylon braided screen over phase cores.
**6- LAYUP** : Cores are laid up over a semiconducting cradle with one pilot core in the center and without contacting each other.
**7- OUTER SHEATH** : Heavy-duty elastomer outer sheath (acc.to AS/NZS 3808)

**RELATED STANDARDS** : AS/NZS 1802
**RATED VOLTAGE** : 1.1/1.1 kV, 3.3/3.3 kV, 6.6/6.6 kV, 11/11 kV
**TEST VOLTAGE** : 4,2 kV, 12 kV, 22 kV, 30 kV

**APPLICATION** General use cable for underground coal mines (except for shuttle cars). Suitable to use as a trailing cable. Smaller cables used for drills and handheld equipment.

**ENVIRONMENT** Used in mines where explosive gasses and dust canaccumulate.

| Power Cores | | | | | Core screen | | Pilot core | | Sheath | | Mass | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cross-section mm² | Strand no/mm | Conductor Diameter Nom. mm | Insulation thickness mm | Insulation diameter Nom. mm | Braid wires no/mm | Cross-section mm² | Strand no/mm | Insulation thickness mm | Thickness mm | Overall diameter Nom. Mm | Approx. cable weight kg/km | Copper weight kg/km |
| **Type** | **209.1** | **1.1/1.1kV** | | | | | | | | | | |
| 6 | 84/0.30 | 3.4 | 1.5 | 6.5 | 7/0.25 | 7.2 | 24/0.20 | 0.8 | 3.8 | 30 | 1,300 | 388 |
| 10 | 77/0.40 | 4.6 | 1.5 | 7.7 | 7/0.25 | 8.6 | 24/0.20 | 0.8 | 3.8 | 32.6 | 1,600 | 543 |
| 16 | 126/0.40 | 5.7 | 1.6 | 9 | 7/0.25 | 9.6 | 24/0.20 | 0.8 | 4 | 35.8 | 2,000 | 745 |
| 25 | 209/0.40 | 7.2 | 1.6 | 10.5 | 7/0.25 | 11.3 | 24/0.20 | 0.8 | 4.3 | 39.7 | 2,600 | 1,053 |
| 35 | 285/0.40 | 8.5 | 1.6 | 11.8 | 7/0.25 | 12.4 | 24/0.20 | 0.8 | 4.6 | 43.1 | 3,100 | 1,373 |
| 50 | 380/0.40 | 10 | 1.7 | 13.5 | 7/0.25 | 14.1 | 40/0.20 | 0.8 | 5 | 47.7 | 3,850 | 1,859 |
| 70 | 203/0.67 | 12 | 1.8 | 16 | 7/0.25 | 16.5 | 40/0.20 | 0.8 | 5.4 | 53.9 | 5,100 | 2,504 |
| 95 | 259/0.67 | 13.2 | 2 | 17.6 | 7/0.25 | 18.2 | 40/0.20 | 0.8 | 6 | 58.6 | 6,100 | 3,273 |
| 120 | 336/0.67 | 15.3 | 2.1 | 20 | 7/0.25 | 20.3 | 40/0.20 | 0.8 | 6.4 | 64.4 | 7,500 | 4,053 |
| 150 | 427/0.67 | 17.1 | 2.3 | 22.2 | 7/0.25 | 22.3 | 40/0.20 | 0.8 | 6.9 | 70.2 | 9,050 | 4,975 |
| 185 | 518/0.67 | 19.2 | 2.5 | 24.7 | 7/0.30 | 30.2 | 40/0.20 | 0.8 | 7.4 | 77.4 | 11,100 | 6,210 |
| 240 | 672/0.67 | 21.8 | 2.8 | 27.9 | 7/0.30 | 33.6 | 40/0.20 | 0.8 | 8.2 | 86 | 13,800 | 7,892 |
| 300 | 854/0.67 | 24.4 | 3 | 30.9 | 7/0.40 | 50.1 | 40/0.20 | 0.8 | 8.8 | 95.1 | 17,400 | 10,095 |
| **Type** | **209.3** | **3.3/3.3kV** | | | | | | | | | | |
| 16 | 126/0.40 | 5.7 | 3 | 12.5 | 7/0.25 | 13.1 | 24/0.20 | 0.8 | 5.3 | 46.2 | 3,000 | 846 |
| 25 | 209/0.40 | 7.2 | 3 | 14 | 7/0.25 | 14.8 | 24/0.20 | 0.8 | 5.6 | 50.1 | 3,700 | 1,154 |
| 35 | 285/0.40 | 8.5 | 3 | 15.3 | 7/0.25 | 15.8 | 24/0.20 | 0.8 | 5.9 | 53.5 | 4,300 | 1,471 |
| 50 | 380/0.40 | 10 | 3 | 16.8 | 7/0.25 | 17.2 | 40/0.20 | 0.8 | 6.3 | 57.6 | 5,100 | 1,948 |
| 70 | 203/0.67 | 12 | 3 | 18.8 | 7/0.25 | 18.6 | 40/0.20 | 0.8 | 6.6 | 62.5 | 6,250 | 2,564 |
| 95 | 259/0.67 | 13.2 | 3 | 20 | 7/0.25 | 20.3 | 40/0.20 | 0.8 | 7.1 | 66.2 | 7,250 | 3,333 |
| 120 | 336/0.67 | 15.3 | 3 | 22.1 | 7/0.30 | 27.2 | 40/0.20 | 0.8 | 7.4 | 72 | 8,800 | 4,252 |
| 150 | 427/0.67 | 17.1 | 3 | 23.9 | 7/0.40 | 39.6 | 40/0.20 | 0.8 | 7.8 | 78 | 10,800 | 5,473 |
| 185 | 518/0.67 | 19.2 | 3 | 26 | 7/0.40 | 42.2 | 40/0.20 | 0.8 | 8.2 | 83.4 | 12,500 | 6,556 |
| 240 | 672/0.67 | 21.8 | 3 | 28.6 | 7/0.40 | 46.6 | 40/0.20 | 0.8 | 8.8 | 90.3 | 15,000 | 8,267 |
| 300 | 854/0.67 | 24.4 | 3 | 31.2 | 7/0.50 | 63.2 | 40/0.20 | 0.8 | 9.4 | 98.4 | 18,400 | 10,473 |
| **Type** | **209.6** | **6.6/6.6kV** | | | | | | | | | | |
| 16 | 126/0.40 | 5.7 | 5 | 16.5 | 7/0.25 | 17.2 | 24/0.20 | 0.8 | 6.4 | 57.3 | 4,400 | 964 |
| 25 | 209/0.40 | 7.2 | 5 | 18 | 7/0.25 | 18.6 | 24/0.20 | 0.8 | 6.7 | 61.2 | 5,150 | 1,263 |
| 35 | 285/0.40 | 8.5 | 5 | 19.3 | 7/0.25 | 18.6 | 24/0.20 | 0.8 | 7 | 64.6 | 5,850 | 1,551 |
| 50 | 380/0.40 | 10 | 5 | 20.8 | 7/0.25 | 21.3 | 40/0.20 | 0.8 | 7.3 | 68.5 | 6,700 | 2,066 |
| 70 | 203/0.67 | 12 | 5 | 22.8 | 7/0.25 | 23.4 | 40/0.20 | 0.8 | 7.7 | 73.7 | 8,050 | 2,702 |
| 95 | 259/0.67 | 13.2 | 5 | 24 | 7/0.30 | 29.2 | 40/0.20 | 0.8 | 8.1 | 77.8 | 9,350 | 3,589 |
| 120 | 336/0.67 | 15.3 | 5 | 26.1 | 7/0.30 | 31.7 | 40/0.20 | 0.8 | 8.5 | 83.1 | 10,900 | 4,381 |
| 150 | 427/0.67 | 17.1 | 5 | 27.9 | 7/0.40 | 45.7 | 40/0.20 | 0.8 | 8.9 | 89.1 | 13,100 | 5,649 |
| 185 | 518/0.67 | 19.2 | 5 | 30 | 7/0.40 | 48.4 | 40/0.20 | 0.8 | 9.3 | 94.5 | 14,800 | 6,734 |
| 240 | 672/0.67 | 21.8 | 5 | 32.6 | 7/0.40 | 52.8 | 40/0.20 | 0.8 | 9.9 | 101.4 | 17,500 | 8,445 |
| 300 | 854/0.67 | 24.4 | 5 | 35.2 | 7/0.50 | 71.5 | 40/0.20 | 0.8 | 10.4 | 109.3 | 21,200 | 10,712 |
| **Type** | **209.11** | **11/11kV** | | | | | | | | | | |
| 25 | 209/0.40 | 7.2 | 7.6 | 23.4 | 7/0.25 | 23.7 | 24/0.20 | 0.8 | 8.1 | 75.6 | 7,500 | 1,410 |
| 35 | 285/0,40 | 8.5 | 7.6 | 24.7 | 7/0.30 | 30.2 | 24/0.20 | 0.8 | 8.4 | 79.7 | 8,600 | 1,885 |
| 50 | 380/0,40 | 10 | 7.6 | 26.2 | 7/0.30 | 31.7 | 40/0.20 | 0.8 | 8.7 | 83.6 | 9,600 | 2,365 |
| 70 | 203/0.67 | 12 | 7.6 | 28.2 | 7/0.30 | 34.1 | 40/0.20 | 0.8 | 9.1 | 88.8 | 11,100 | 3,011 |
| 95 | 259/0.67 | 13.2 | 7.6 | 29.4 | 7/0.40 | 47.5 | 40/0.20 | 0.8 | 9.6 | 93.7 | 12,900 | 4,116 |
| 120 | 336/0.67 | 15.3 | 7.6 | 31.5 | 7/0.40 | 51 | 40/0.20 | 0.8 | 9.9 | 98.8 | 14,600 | 4,937 |
| 150 | 427/0.67 | 17.1 | 7.6 | 33.3 | 7/0.40 | 53.7 | 40/0.20 | 0.8 | 10.3 | 103.5 | 16,400 | 5,879 |
| 185 | 518/0.67 | 19.2 | 7.6 | 35.4 | 7/0.40 | 57.2 | 40/0.20 | 0.8 | 10.7 | 108.8 | 18,300 | 6,988 |

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Producem cablu din 1994

# CMP1Y


2x7( 4x0.40 Cu+3x0.50 CSS )

## Cablul bifilar torsadat , izolat in PVC

## Highly flexible PVC-insulated cables

Standardul de produs I Standard of Product

Romcablu 2012/01/01

**Domeniul de** utilizare Cablul bifilar torsadat, izolat in PVC pentru impuscare, Utilizat in industria miniera

**Tensiune** de incercare:2300 V ca ,50 Hz

Rezistenta electrica max la 20 ° C:2x48 Ω/km

**Rezistenta** de izolatie , la 70°C: min 1 MΩxm .

**Temperatura** de lucru : -20÷ +40°C

**Conductor** este format din 4 sarme de cupru de 0.4 mm si 3 sarme de otel-cuprat de 0.5mm

**Izolatia** PVC tip YI1

**Cod de culori :** alb / verde sau alb /albastru

**Applications**: PVC-insulated twisted pair firing cable for the mining industry

**Test voltage**: 2300 V AC, 50 Hz

Max. electrical resistance at 20 ° C: 2x48 Ω/km

Insulation **resistance** at 70°C: min. 1 MΩxm .

Operational temperature: -20÷ +40°C

**Conductor** The conductor is made up of 4 x 0.4 mm copper wires and 3 x 0.5 mm copper-coated steel wires.

**Insulation** PVC type YI1

**Color cod :** White / green or white / blue

| **Conductori** Cores (nxmm) J-YY | Grosime izolatie Insulation thickness (mm) | Grosime manta Sheath thickness (mm) | exterior Outer Ø (mm) | **Max.cond.** resistance (ohm/km) | Greutate Weight kg/km |
|---|---|---|---|---|---|
| **CMP1Y 2x7x0.4** | 0.8 | 0.62 | 85-122 | 2X48 | 32-35 |
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