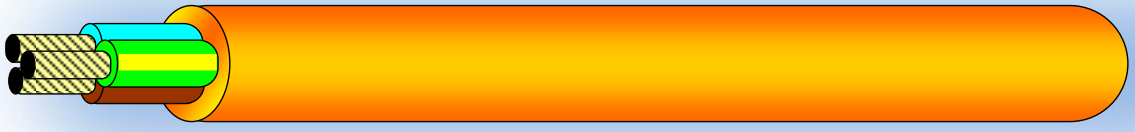
AUSTECH WIRE & CABLE RoHS Compliant

ISO 9001 REGISTERED FIRM

Rohs Compliant



# 3 Core Ordinary Duty Cable 90$^0$C 250/440V AS/NZS 3191:2003

## V90 PVC Insulation and V90 Sheathed to AS/NZS3808:2000

| | |
|---|---|
| **Conductor:** | Plain Copper Conductor to AS1125 |
| **Insulation:** | V90 to AS/NZS 3808:2000 UV Stabilized |
| **Sheath:** | Nitrile PVC V90 to AS/NZS 3808:2000 UV Stabilized |
| **Core Colors:** | Brown, Lt.Blue and Green/Yellow |
| **Sheath Colors:** | Grey, other color by quotation |
| **Pack Size:** | 100mt and 500mt. |
| **Bending Radius** | Max. 5 x Outside Diameter |
| **Minimum Insulation resistance** | 40 (GΩm) at 20$^0$C min. - at elevated temperatu 0.002 (GΩm) at 90$^0$C |

| Code | Nearest SAE, (B&S) (AWG) | Number of Strands x wire Ø mm | Number of Cores | Nominal Area mm$^2$ | AMP Rating | Average Sheath Thickness mm | Average Insulation Thickness mm | OFHC Max D.C. Resistance at 20°C m Ω/mt | Nominal O.D. mm | Mass Kg/100mt |
|---|---|---|---|---|---|---|---|---|---|---|
| MFO316020 | 18 1/2 | 16/0.20 | 3 | 0.5 | 5 | 0.80 | 0.60 | 39.00 | 5.85 | 4.95 |
| MFO324020 | 18 1/2 | 24/0.20 | 3 | 0.75 | 7.5 | 0.80 | 0.60 | 26.00 | 6.70 | 6.30 |
| MFO332020 | 17 1/2 | 32/0.20 | 3 | 1.00 | 10 | 0.80 | 0.60 | 19.50 | 6.90 | 7.40 |
| MFO330025 | 15 1/2 | 30/0.25 | 3 | 1.50 | 15 | 0.90 | 0.70 | 13.30 | 9.70 | 9.40 |
| MFO350025 | 13 | 50/0.25 | 3 | 2.50 | 20 | 1.10 | 0.80 | 7.98 | 10.00 | 16.00 |
| MFO356030 | 11 | 56/0.30 | 3 | 4.00 | 25 | 1.10 | 0.85 | 4.81 | 11.70 | 23.50 |

**OFHC ( oxygen free high conductivity copper )** is employed in audio and industrial electronic units.

Features:

**1. High electric and thermal conductivity**
**Since OFHC contains oxygen and impurities in very small quantities only,**
**it shows excellent electric conductivity and thermal conductivity**
**( Oxygen and impurities reduce the conductivity )**

**2. Excellent hydrogen enbrittlement resistance**
**( TPC ) Tough pitch copper becomes very brittle**
**when it is heated at higher then 600$^0$ C under a reduction gas atmosphere including hydrogen gas.**
Since OFHC contains a very low oxygen content only, it does not show any brittleness



**Austech Wire & Cable** 11 Tarnard Drive, Braeside , Vic. 3195 Tel: (03) 9587 1712 Fax: (03) 9587 7563