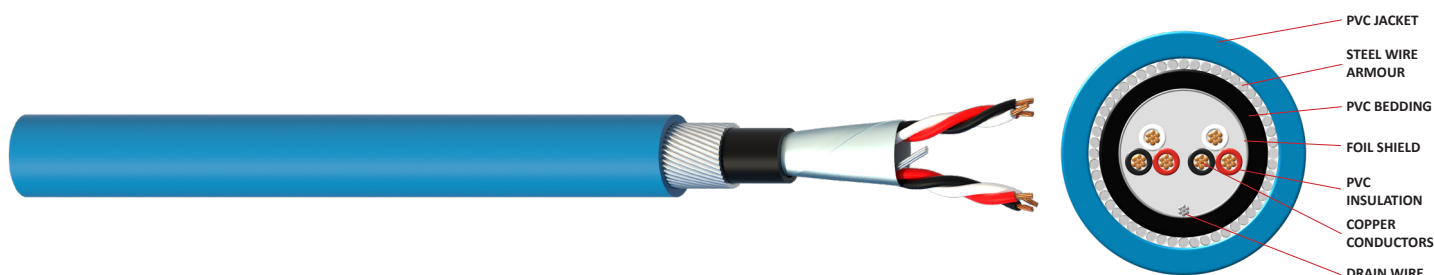


# INSTRUMENTATION CABLE

## 1.5mm<sup>2</sup> OS/SWA TRIADS - BLUE

**APPLICATION:** Used in process control applications for interconnecting measurement instruments, instrument panels, sensing devices and control systems. These cables are not to be regarded as power cables and should not be used for the direct connection of equipment to mains power supplies.



### TECHNICAL DATA

|                              |   |
|------------------------------|---|
| <b>Conductor</b>             | Stranded Plain Annealed Copper Conductor 1.5mm <sup>2</sup> (7/0.50)  |
| <b>Insulation</b>            | PVC, V-90, Red, White & Black Numbered Twisted Triad  |
| <b>Screen</b>                | Overall Aluminium/Polyester Foil Shield with 7/0.20 Tinned Copper Drain Wire                                |
| <b>Bedding</b>               | Black PVC, 5V-90, Flame Retardant   |
| <b>Armouring</b>             | Single layer galvanised (mild) steel wires helically applied over bedding                                   |
| <b>Sheath</b>                | Blue PVC, 5V-90, Flame Retardant UV Resistant   |
| <b>Operating Voltage</b>     | 110V AC/150V DC   |
| <b>Operating Temperature</b> | -20°C to +90°C  |
| <b>Bending Radius</b>        | 12D   |
| <b>Standards</b>             | International: IEC 60332-3-22, IEC 60079.14<br>Australia/New Zealand: AS/NZS 1125, AS/NZS 3808, AS/NZS 1660 |

|  |      |
|--|------|
| <b>Maximum Current Rating (Amps)</b>                     | 13   |
| <b>Conductor Resistance @ 20°C (Ω/km)</b>                | 13.6 |
| <b>Capacitance Cond. to Cond. - Unscreened (pf/m)</b>    | 110  |
| <b>Capacitance Cond. to Cond. - Screened (pf/m)</b>      | 200  |
| <b>Capacitance Cond. to Scr. - Screened (pf/m)</b>       | 300  |
| <b>Characteristic Impedance @ 1kHz Unscreened (Ohms)</b> | 200  |
| <b>Characteristic Impedance @ Screened 1kHz (Ohms)</b>   | 150  |
| <b>Inductance @ 1kHz (mH/km)</b>                         | 0.95 |
| <b>LR Ratio (uH/Ω)</b>                                   | 36.5 |

### PHYSICAL CHARACTERISTICS

| Product Code     | No. of Triads | Conductor Area<br>(mm <sup>2</sup> ) | Conductor Stranding<br>(No./mm) | Insulation Thickness<br>(mm) | Nominal O.D.<br>(mm) | Approx. Weight<br>(kg/km) |
|------------------|---------------|--------------------------------------|---------------------------------|------------------------------|----------------------|---------------------------|
| MAU5103CS SWA BE | 1             | 1.5                                  | 7/0.50                          | 0.4                          | 11.8                 | 283                       |
| MAU5602CS SWA BE | 2             | 1.5                                  | 7/0.50                          | 0.4                          | 16.6                 | 570                       |
| MAU5604CS SWA BE | 4             | 1.5                                  | 7/0.50                          | 0.4                          | 18.9                 | 759                       |
| MAU5606CS SWA BE | 6             | 1.5                                  | 7/0.50                          | 0.4                          | 21.9                 | 982                       |
| MAU5608CS SWA BE | 8             | 1.5                                  | 7/0.50                          | 0.4                          | 23.9                 | 1281                      |
| MAU5612CS SWA BE | 12            | 1.5                                  | 7/0.50                          | 0.4                          | 28.1                 | 1737                      |

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