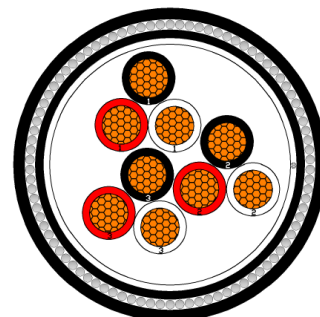




## Multi-Triad PVC Insulated Instrumentation Cables 110V, Cu, Overall Screened Armoured



Note: The above drawing is for representation purpose only.

### Description

Conductor:

Insulation:

Overall Screen:

Bedding:

Armour:

Sheath:

Class 2 Plain Annealed Copper

PVC V-90

Aluminium foil/Polyester tape with a 7/0.2mm  
tinned annealed copper drain wire

PVC 5V-90

Galvanised Steel Wire Armour

PVC 5V-90

### Core identification

Black, White and Red coloured cores with numbered triads

### Sheath Colour

Black

### Technical Data

Rated Voltage:

Nominal Voltage:

Operating Temperature:

Short Circuit Temperature :

Max. 300V a.c.

≤ 110V a.c. / 150V d.c.

-25°C to +75°C, Maximum 90°C\*

\*Not subject to severe mechanical pressure at temperatures  
higher than 75°C.

160°C for 5 sec

### Standards Compliance

AS/NZS 1125

AS/NZS 3808

UL Style 2464

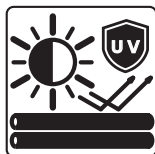
AS/NZS 1660.5.6 (Equivalent to IEC 60332-1)

AS/NZS 1660.5.1 (Equivalent to IEC60332-3-24)

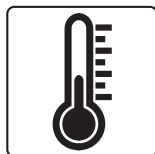
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +75°C



GREEN STAR

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## Multi-Triad PVC Insulated Instrumentation Cables 110V, Cu, Overall Screened Armoured

### Physical & Electrical Characteristics

| WWC Product Code | Conductor Size mm <sup>2</sup> (AWG) | Number of Triads | Conductor Diameter (mm) | Insulation Thickness (mm) | Approx. Overall Diameter (mm) | Min. Bending Radius (mm) |                    | Approx. Weight (kg/100m) |
|------------------|--------------------------------------|------------------|-------------------------|---------------------------|-------------------------------|--------------------------|--------------------|--------------------------|
|                  |                                      |                  |                         |                           |                               | During Installation      | After Installation |                          |
| 5420             | 0.5 (20)<br>(7/0.30mm)               | 1                | 0.9                     | 0.4                       | 10.4                          | 197                      | 131                | 21.7                     |
| *SM5423          |                                      | 2                | 0.9                     | 0.4                       | 13.2                          | 249                      | 166                | 24.2                     |
| 5433             |                                      | 3                | 0.9                     | 0.4                       | 13.7                          | 259                      | 173                | 35.4                     |
| 5443             |                                      | 4                | 0.9                     | 0.4                       | 14.5                          | 274                      | 183                | 40.1                     |
| 5463             |                                      | 6                | 0.9                     | 0.4                       | 17.4                          | 329                      | 219                | 64.1                     |
| *SM5448          |                                      | 8                | 0.9                     | 0.4                       | 18.4                          | 348                      | 232                | 74.5                     |
| 5413             |                                      | 10               | 0.9                     | 0.4                       | 20.8                          | 393                      | 262                | 84.9                     |
| 5449             |                                      | 12               | 0.9                     | 0.4                       | 21.5                          | 406                      | 271                | 91.4                     |
| *SM5450          |                                      | 16               | 0.9                     | 0.4                       | 23.9                          | 452                      | 301                | 102.0                    |
| *SM5451          |                                      | 20               | 0.9                     | 0.4                       | 25.4                          | 480                      | 320                | 115.7                    |
| *SM5452          |                                      | 24               | 0.9                     | 0.4                       | 28.2                          | 533                      | 355                | 130.2                    |
| *SM5453          |                                      | 36               | 0.9                     | 0.4                       | 31.5                          | 595                      | 397                | 182.3                    |
| 5405             | 1.5 (16)<br>(7/0.50mm)               | 1                | 1.47                    | 0.4                       | 11.8                          | 223                      | 149                | 28.4                     |
| *SM5425          |                                      | 2                | 1.47                    | 0.4                       | 16.5                          | 312                      | 208                | 46.7                     |
| 5435             |                                      | 3                | 1.47                    | 0.4                       | 17.2                          | 325                      | 217                | 64.9                     |
| 5445             |                                      | 4                | 1.47                    | 0.4                       | 18.3                          | 346                      | 231                | 74.5                     |
| 5465             |                                      | 6                | 1.47                    | 0.4                       | 21.0                          | 397                      | 265                | 95.2                     |
| *SM5485          |                                      | 8                | 1.47                    | 0.4                       | 23.1                          | 437                      | 291                | 122.2                    |
| 5415             |                                      | 10               | 1.47                    | 0.4                       | 26.2                          | 495                      | 330                | 149.1                    |
| 5486             |                                      | 12               | 1.47                    | 0.4                       | 26.9                          | 508                      | 339                | 162.6                    |
| *SM5487          |                                      | 16               | 1.47                    | 0.4                       | 29.4                          | 556                      | 370                | 183.9                    |
| *SM5488          |                                      | 20               | 1.47                    | 0.4                       | 31.4                          | 593                      | 396                | 212.3                    |
| *SM5489          |                                      | 24               | 1.47                    | 0.4                       | 36.5                          | 690                      | 460                | 260.5                    |
| *SM5490          |                                      | 36               | 1.47                    | 0.4                       | 41.0                          | 775                      | 517                | 360.0                    |

\*These cables are non-stocked items subject to lead times.

| Conductor Size (mm <sup>2</sup> ) | Maximum D.C. Resistance of conductor at 20°C (Ω/km) | Maximum Capacitance (Cond. to Cond.) (pF/m) | Approximate Inductance @ 1kHz (mH/km) | L/R Ratio @ 1kHz (μH/Ω) |
|-----------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------|
| 0.5                               | 38.4                                                | 82                                          | 1.00                                  | 13.7                    |
| 1.5                               | 13.6                                                | 110                                         | 0.95                                  | 36.5                    |

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