

# MAXCAB CONSTRUCTION CABLES & BUILDING WIRE

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## BCW SERIES

**Standard Performance Bare Copper Wire CU Strand - Soft Drawn**



### APPLICATIONS:

**Earthing** Transformer earth leads, earth grid and electrical grounding systems.

### PRODUCT FEATURES:

- ▶ Metre marked for better length control
- ▶ Custom printing on request for identification purposes
- ▶ Greater flexibility 35mm<sup>2</sup> and above
- ▶ No minimum order quantity

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2) or greater

### CHARACTERISTICS:

**Minimum bending radius** Fixed 10 x cable diameter

**Relevant Standards** AS/NZS1125, AS/NZS3000

| Code   | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight | DC Conductor Resistance @ |
|--------|---------------------|-------------------|--------------------------|----------------|---------------------------|
|        | (mm <sup>2</sup> )  | No. of wires x mm | (mm)                     | (Kg/Km)        | 20°C<br>Ω/km              |
| BCW016 | 1 X 16.0            | 7/1.70            | 5.1                      | 143            | 1.15                      |
| BCW025 | 1 X 25.0            | 7/2.14            | 6.42                     | 227            | 0.727                     |
| BCW035 | 1 X 35.0            | 19/1.53           | 7.65                     | 315            | 0.524                     |
| BCW050 | 1 X 50.0            | 19/1.78           | 8.9                      | 426            | 0.387                     |
| BCW070 | 1 X 70.0            | 19/2.14           | 10.7                     | 616            | 0.268                     |
| BCW095 | 1 X 95.0            | 37/1.78           | 12.46                    | 830            | 0.193                     |
| BCW120 | 1 X 120             | 37/2.03           | 14.21                    | 1080           | 0.153                     |

## CW SERIES

**Standard Performance Fixed Building / Conduit Wire 0.6/1kV 90°C**



### APPLICATIONS:

- Power** Suitable for switchboards and panel wiring.
- Control & Signals** Suitable for control panel wiring.
- Enclosures** Wiring in metal / PVC conduit and other protective enclosures.
- Earthing** Wiring in housing and light commercial buildings. Also suitable for earth bonding.

### PRODUCT FEATURES:

- ▶ Flame retardant
- ▶ UV stabilised
- ▶ Tight bending radius
- ▶ Metre marked 0.5mm to 25mm for better length control
- ▶ Oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

- Conductor** Annealed plain copper stranded (Class 2).
- Insulation** SPVC V-90HT.

### CHARACTERISTICS:

- Operating Temperature Range** Fixed -5°C to 90°C.
- Maximum Conductor Temperature** 105°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage**  $U_0/U$  0.6/1kV. **Max AC Operating Voltage**  $U_0$  0.7kV.
- Minimum Bending Radius** Fixed 7 x cable diameter.
- Insulation Colours**  
(use colour letters at end of code when ordering)  
BK - Black  
BL - Blue  
G/Y - Green/Yellow  
RD - Red  
WH - White. Other colours available on request.
- Relevant Standards** AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008, AS/NZS 1125, **CE** Directive 2006/95/EC, **RoHS** Compliant.

| Code    | No. of Cores x Size (mm <sup>2</sup> ) | Approx. Stranding No. of wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps @ 30°C Fixed Installation Single Phase |                   | Single Phase Volt Drop 90°C (Mv/Am) |
|---------|----------------------------------------|-------------------------------------|-------------------------------|------------------------|-----------------------------------------------------|-------------------|-------------------------------------|
|         |                                        |                                     |                               |                        | Conduit in air                                      | Unenclosed in air |                                     |
| CW001.5 | 1 x 1.5                                | 7/0.5                               | 3.3                           | 25                     | 21                                                  | 22                | 34.6                                |
| CW002.5 | 1 x 2.5                                | 7/0.67                              | 3.7                           | 35                     | 27                                                  | 31                | 18.9                                |
| CW004   | 1 x 4.0                                | 7/0.85                              | 4.7                           | 55                     | 36                                                  | 41                | 11.7                                |
| CW006   | 1 x 6.0                                | 7/1.04                              | 5.3                           | 70                     | 47                                                  | 52                | 7.82                                |
| CW010   | 1 x 10.0                               | 7/1.35                              | 6.1                           | 120                    | 62                                                  | 72                | 4.67                                |
| CW016   | 1 x 16.0                               | 7/1.70                              | 7.1                           | 180                    | 80                                                  | 95                | 2.94                                |
| CW025   | 1 x 25.0                               | 7/2.14                              | 8.9                           | 285                    | 107                                                 | 129               | 1.87                                |
| CW035   | 1 x 35.0                               | 19/1.53                             | 10.3                          | 370                    | 128                                                 | 158               | 1.35                                |
| CW050   | 1 x 50.0                               | 19/1.78                             | 12.0                          | 515                    | 157                                                 | 194               | 1.007                               |
| CW070   | 1 x 70.0                               | 19/2.14                             | 13.3                          | 730                    | 194                                                 | 246               | 0.710                               |
| CW095   | 1 x 95.0                               | 37/1.78                             | 15.9                          | 980                    | 242                                                 | 306               | 0.527                               |
| CW120   | 1 x 120                                | 37/2.03                             | 16.4                          | 1250                   | 276                                                 | 358               | 0.430                               |
| CW150   | 1 x 150                                | 37/2.27                             | 17.9                          | 1480                   | 314                                                 | 413               | 0.381                               |



## VIN SERIES

**Standard Performance Fixed Circular  
TPS Cable 0.6/1kV 75°C**

### APPLICATIONS:

**Power** Suitable for main and submains in a fixed location.  
**Enclosures** Internal wiring inside and between switchboards.  
**Buildings** Suitable for interconnection of mains between floors.  
 Typical use within Network authority works.

### PRODUCT FEATURES:

- ▶ Flame retardant
- ▶ UV stabilised
- ▶ Metre marked for better length control
- ▶ Oil and chemical resistant (See Technical Section)






### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2)  
**Insulation** V-75.  
**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature range** -20°C to 75°C  
**Maximum Conductor Temperature** 75°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).  
**Rated Voltage** U<sub>0</sub>/U 0.6/1kV  
**Minimum Bending Radius** Fixed - 12 x cable diameter  
**Insulation Core Colour** White  
**Sheath Colour**  
 (Use colour letters at the end of the code when ordering)  
 BK - Black  
 BL - Blue  
 RD - Red  
 WH - White  
**Relevant Standards** AS/NZS 5000.1, AS/NZS 3808, AS/NZS 3008, AS/NZS 1125, **RoHS** Compliant

| Code   | No. of<br>Cores x Size<br><br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>no. of<br><br>Wires x mm | Approx.<br>Overall<br>Diameter<br><br>(H x W)<br>(mm x mm) | Approx.<br>Weight<br><br>(Kg/Km) | Nominal Amps<br>@ 30°C Fixed Installation - Three Phase                                         |                                                                                                                                    |                                                                                                                                              | Three Phase<br>Volt Drop<br>75°C<br>(mV/Am) |
|--------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|        |                                                  |                                                  |                                                            |                                  | Touching<br> | Enclosed<br>wiring<br>enclosure<br>in Air<br> | Partially<br>surrounded<br>by thermal<br>insulation<br> |                                             |
| VIN016 | 1 x 16                                           | 7/1.70                                           | 9.9                                                        | 230                              | 82                                                                                              | 71                                                                                                                                 | 44                                                                                                                                           | 2.55                                        |
| VIN025 | 1 x 25                                           | 7/2.14                                           | 11.6                                                       | 340                              | 111                                                                                             | 92                                                                                                                                 | 57                                                                                                                                           | 1.65                                        |
| VIN035 | 1 x 35                                           | 19/1.53                                          | 12.9                                                       | 440                              | 136                                                                                             | 114                                                                                                                                | 71                                                                                                                                           | 1.18                                        |
| VIN070 | 1 x 70                                           | 19/2.14                                          | 16.3                                                       | 800                              | 210                                                                                             | 173                                                                                                                                | 107                                                                                                                                          | 0.591                                       |

## CFX SERIES

**Standard Performance Flexible  
(Fixed application) SDI Cable  
0.6/1kV 90°C**



### APPLICATIONS:

**Power** Switchboards, submains & subcircuits, buried & in underground or overhead ducts, transformers, load banks or other equipment requiring fixed applications.

**Pumping** Suitable for permanent submersion to 200 metres.

**Generator Sets** As leads for temporary power supplies.

**Telecommunications** Where finely stranded large cross section cables are required for minimal volt drop in a fixed application.

### PRODUCT FEATURES:

- ▶ Small overall diameter for tight spaces
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ UV stabilised
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded flexibility (Class 5).

**Insulation** X-90.

**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage**  $U_0/U$  0.6/1kV.

**Max AC Operating Voltage**  $U_0$  0.7kV.

**Minimum Bending Radius** Fixed 4 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Black. (Red subject to availability).

**Relevant Standards** IEC 60332-1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, **RoHS** Compliant.

| Code   | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase |                     |          | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am) |
|--------|-------------------------------------------|-------------------------------------|-------------------------------|------------------------|-------------------------------------------------------------------------------|---------------------|----------|-------------------------------------------------------------|
|        |                                           |                                     |                               |                        | Spaced                                                                        | Spaced from Surface | Touching |                                                             |
| CFX016 | 1 x 16.0                                  | 122/0.39                            | 9.20                          | 215                    | 117                                                                           | 100                 | 94       | 2.550                                                       |
| CFX025 | 1 x 25.0                                  | 189/0.39                            | 10.82                         | 310                    | 156                                                                           | 133                 | 125      | 1.620                                                       |
| CFX035 | 1 x 35.0                                  | 265/0.39                            | 12.00                         | 415                    | 195                                                                           | 166                 | 158      | 1.170                                                       |
| CFX050 | 1 x 50.0                                  | 380/0.39                            | 13.72                         | 560                    | 245                                                                           | 210                 | 194      | 0.872                                                       |
| CFX070 | 1 x 70.0                                  | 346/0.39                            | 15.60                         | 780                    | 311                                                                           | 265                 | 248      | 0.615                                                       |
| CFX095 | 1 x 95.0                                  | 457/0.39                            | 17.25                         | 990                    | 375                                                                           | 319                 | 298      | 0.457                                                       |
| CFX120 | 1 x 120.0                                 | 587/0.49                            | 19.00                         | 1270                   | 447                                                                           | 381                 | 354      | 0.373                                                       |
| CFX150 | 1 x 150.0                                 | 728/0.49                            | 21.05                         | 1575                   | 517                                                                           | 440                 | 409      | 0.316                                                       |
| CFX185 | 1 x 185.0                                 | 886/0.49                            | 23.21                         | 1945                   | 594                                                                           | 505                 | 470      | 0.269                                                       |
| CFX240 | 1 x 240.0                                 | 1172/0.49                           | 25.74                         | 2420                   | 716                                                                           | 608                 | 565      | 0.227                                                       |
| CFX300 | 1 x 300.0                                 | 1464/0.49                           | 28.25                         | 3150                   | 827                                                                           | 701                 | 650      | 0.202                                                       |
| CFX400 | 1 x 400.0                                 | 1930/0.49                           | 32.11                         | 4370                   | 1000                                                                          | 840                 | 780      | 0.183                                                       |
| CFX500 | 1 x 500.0                                 | 2442/0.49                           | 35.75                         | 5275                   | 1168                                                                          | 972                 | 903      | 0.170                                                       |
| CFX630 | 1 x 630.0                                 | 3246/0.49                           | 40.57                         | 6400                   | 1382                                                                          | 1133                | 1052     | 0.160                                                       |

## MC SERIES

### Standard Performance Fixed Circular TPS Cable 450/750V 90°C



#### APPLICATIONS:

- Power** Suitable for mains and submains in a fixed application.
- Direct Burial** Can be installed underground when installed as part of a Category B wiring system.
- Outdoor Use** Suitable for outdoor use and wet locations not subject to mechanical damage.
- Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

#### PRODUCT FEATURES:

- ▶ Metre marking for better length control
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)


**Note:** Standard Core MC Series meets AS/NZS 5000.2.  
Multi Core MC Series (7 core and above) meets AS/NZS 5000.3.

#### CONSTRUCTION:

- Conductor** Annealed plain copper stranded (Class 2).
- Insulation** SPVC V-90.
- Sheath** SPVC.

#### CHARACTERISTICS:

- Operating Temperature Range** Fixed -20 to 90°C.
- Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage** U<sub>0</sub>/U 450/750V.
- Minimum Bending Radius** Fixed 12 x cable diameter.
- Sheath Colour** Black.
- Standard Core Colour** 3 Core – Red, Black, Green/Yellow  
4 Core – Red, White, Blue, Green/Yellow.  
5 Core – Red, White, Blue, Black, Green/Yellow.  
Multi Core – White (numbered) + Green/Yellow.
- Relevant Standards** AS/NZS 5000.2, AS/NZS 5000.3, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, IEC 60332-1-2, AS/NZS 60079.14, RoHS Compliant.

| Code     | No. of<br>Cores x Size<br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>No. of<br>wires x mm | Approx. Overall<br>Diameter<br>(mm) | Approx.<br>Weight<br>(Kg/Km) | Nominal Amps un-enclosed<br>@ 30°C fixed application<br>Touching  | 3 Phase Volt Drop<br>@50Hz / MAX.<br>Conductor Temp:<br>90°C<br>(Mv/Am) |
|----------|----------------------------------------------|----------------------------------------------|-------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| MC03/1.5 | 2x1.5+E1.5                                   | 7/0.50+7/0.50                                | 8.5                                 | 99                           | 17                                                                                                                                                     | 30.0                                                                    |
| MC03/2.5 | 2x2.5+E2.5                                   | 7/0.67+7/0.67                                | 10.0                                | 147                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC03/4.0 | 2x4.0+E2.5                                   | 7/0.85+7/0.67                                | 11.6                                | 198                          | 33                                                                                                                                                     | 10.2                                                                    |
| MC03/6.0 | 2x6.0+E2.5                                   | 7/1.04+7/0.67                                | 12.8                                | 246                          | 42                                                                                                                                                     | 6.8                                                                     |
| MC04/1.5 | 3x1.5+E1.5                                   | 7/0.50+7/0.50                                | 9.2                                 | 122                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC04/2.5 | 3x2.5+E2.5                                   | 7/0.67+7/0.67                                | 11.1                                | 189                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC04/4.0 | 3x4.0+E2.5                                   | 7/0.85+7/0.67                                | 12.7                                | 253                          | 33                                                                                                                                                     | 10.2                                                                    |
| MC04/6.0 | 3x6.0+E2.5                                   | 7/1.04+7/0.67                                | 14.0                                | 323                          | 42                                                                                                                                                     | 6.8                                                                     |
| MC05/1.5 | 4x1.5+E1.5                                   | 7/0.50+7/0.50                                | 10.0                                | 145                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC05/2.5 | 4x2.5+E2.5                                   | 7/0.67+7/0.67                                | 12.2                                | 227                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC05/4.0 | 4x4.0+E2.5                                   | 7/0.85+7/0.67                                | 14.1                                | 316                          | 33                                                                                                                                                     | 10.2                                                                    |
| MC05/6.0 | 4x6.0+E2.5                                   | 7/1.04+7/0.67                                | 15.3                                | 407                          | 42                                                                                                                                                     | 6.8                                                                     |
| MC07/1.5 | 6x1.5+E1.5                                   | 7/0.50+7/0.50                                | 11.4                                | 198                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC12/1.5 | 11x1.5+E1.5                                  | 7/0.50+7/0.50                                | 14.2                                | 322                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC19/1.5 | 18x1.5+E1.5                                  | 7/0.50+7/0.50                                | 16.9                                | 448                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC27/1.5 | 26x1.5+E1.5                                  | 7/0.50+7/0.50                                | 21.0                                | 674                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC37/1.5 | 36x1.5+E1.5                                  | 7/0.50+7/0.50                                | 22.8                                | 844                          | 17                                                                                                                                                     | 30.0                                                                    |
| MC07/2.5 | 6x2.5+E2.5                                   | 7/0.67+7/0.67                                | 13.2                                | 302                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC12/2.5 | 11x2.5+E2.5                                  | 7/0.67+7/0.67                                | 17.4                                | 485                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC19/2.5 | 18x2.5+E2.5                                  | 7/0.67+7/0.67                                | 20.8                                | 755                          | 25                                                                                                                                                     | 16.4                                                                    |
| MC27/2.5 | 26x2.5+E2.5                                  | 7/0.67+7/0.67                                | 24.9                                | 1015                         | 25                                                                                                                                                     | 16.4                                                                    |
| MC37/2.5 | 36x2.5+E2.5                                  | 7/0.67+7/0.67                                | 28.1                                | 1388                         | 25                                                                                                                                                     | 16.4                                                                    |

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

## MCN SERIES

**Standard Performance Fixed Circular  
TPS Cable 450/750V 90°C (No-Earth)**



### APPLICATIONS:

- Power** Suitable for mains and submains in a fixed application.
- Direct Burial** Can be installed underground when installed as part of a Category B wiring system.
- Outdoor Use** Suitable for outdoor use and wet locations not subject to mechanical damage.
- Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

### PRODUCT FEATURES:


- ▶ Metre marking for better length control
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

- Conductor** Annealed plain copper stranded (Class 2).
- Insulation** SPVC V-90.
- Sheath** SPVC.

### CHARACTERISTICS:

- Operating Temperature Range** Fixed -20 to 90°C.
- Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage** U<sub>0</sub>/U 450/750V.
- Minimum Bending Radius** Fixed 12 x cable diameter.
- Sheath Colour** Black.
- Standard Core Colour** Multi Core – White (numbered)
- Relevant Standards** AS/NZS 5000.3, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, IEC 60332-1-2, AS/NZS 60079.14, **RoHS** Compliant.

| Code      | No. of<br>Cores x Size<br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>No. of<br>wires x mm | Approx. Overall<br>Diameter<br>(mm) | Approx.<br>Weight<br>(Kg/Km) | Nominal Amps un-enclosed<br>@ 30°C fixed application |                                                                                       | 3 Phase Volt Drop<br>@50Hz / MAX.<br>Conductor Temp:<br>90°C<br>(Mv/Am) |
|-----------|----------------------------------------------|----------------------------------------------|-------------------------------------|------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|           |                                              |                                              |                                     |                              | Touching                                             |  |                                                                         |
| MCN02/1.5 | 2 x 1.5                                      | 7/0.50                                       | 8.4                                 | 65                           | 21                                                   |                                                                                       | 30.0                                                                    |
| MCN02/2.5 | 2 x 2.5                                      | 7/0.67                                       | 9.8                                 | 107                          | 30                                                   |                                                                                       | 16.4                                                                    |
| MCN03/1.5 | 3 x 1.5                                      | 7/0.50                                       | 8.8                                 | 96                           | 17                                                   |                                                                                       | 30.3                                                                    |
| MCN03/2.5 | 3 x 2.5                                      | 7/0.67                                       | 10.6                                | 162                          | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN04/1.5 | 4 x 1.5                                      | 7/0.50                                       | 9.5                                 | 129                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN04/2.5 | 4 x 2.5                                      | 7/0.67                                       | 11.4                                | 218                          | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN07/1.5 | 7 x 1.5                                      | 7/0.50                                       | 11.4                                | 198                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN07/2.5 | 7 x 2.5                                      | 7/0.67                                       | 13.2                                | 302                          | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN12/1.5 | 12 x 1.5                                     | 7/0.50                                       | 14.2                                | 322                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN12/2.5 | 12 x 2.5                                     | 7/0.67                                       | 17.4                                | 485                          | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN19/1.5 | 19 x 1.5                                     | 7/0.50                                       | 16.9                                | 448                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN19/2.5 | 19 x 2.5                                     | 7/0.67                                       | 20.8                                | 755                          | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN27/1.5 | 27 x 1.5                                     | 7/0.50                                       | 21.0                                | 674                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN27/2.5 | 27 x 2.5                                     | 7/0.67                                       | 24.9                                | 1015                         | 25                                                   |                                                                                       | 16.4                                                                    |
| MCN37/1.5 | 37 x 1.5                                     | 7/0.50                                       | 22.8                                | 844                          | 17                                                   |                                                                                       | 30.0                                                                    |
| MCN37/2.5 | 37 x 2.5                                     | 7/0.67                                       | 28.1                                | 1388                         | 25                                                   |                                                                                       | 16.4                                                                    |



## MCX SERIES

**High Performance Fixed Circular  
TPS Cable 0.6/1kV 90°C**



### APPLICATIONS:

- Power** Suitable for mains and submains in a fixed application.
- Direct Burial** Can be installed underground when installed as part of a Category B wiring system.
- Outdoor Use** Suitable for outdoor use and wet locations not subject to mechanical damage.
- Flexible** Class 5 conductors for easy installation in fixed applications.
- Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

### PRODUCT FEATURES:


- ▶ Flexible Class 5 conductors for easy installation
- ▶ Metre marking for better length control
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

- Conductor** Annealed plain copper stranded high flexibility (Class 5).
- Insulation** X-90.
- Sheath** SPVC.

### CHARACTERISTICS:

- Operating Temperature Range** Fixed -20 to 90°C.
- Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage** U<sub>o</sub>/U 0.6/1kV.
- Minimum Bending Radius** Fixed 12 x cable diameter.
- Sheath Colour** Black.
- Standard Core Colour**
  - 3 Core – Red, Black, Green/Yellow.
  - 4 Core – Red, White, Blue, Green/Yellow.
  - 5 Core – Red, White, Blue, Black, Green/Yellow.
- Relevant Standards** AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3008, AS/NZS 3808, IEC 60332-1-2, AS/NZS 60079.14, **RoHS** Compliant.

| Code      | No. of<br>Cores x Size<br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>No. of<br>wires x mm | Approx. Overall<br>Diameter<br>(mm) | Approx.<br>Weight<br>(Kg/Km) | Nominal Amps un-enclosed<br>@ 30°C fixed application |                                                                                       | 3 Phase Volt Drop<br>@ 50Hz / MAX.<br>Conductor Temp:<br>90°C<br>(Mv/Am) |
|-----------|----------------------------------------------|----------------------------------------------|-------------------------------------|------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|           |                                              |                                              |                                     |                              | Touching                                             |  |                                                                          |
| MCX03/10  | 2x10+E4.0                                    | 80/0.40+56/0.30                              | 16.4                                | 394                          | 67                                                   |                                                                                       | 4.05                                                                     |
| MCX03/16  | 2x16+E6.0                                    | 128/0.40+84/0.30                             | 18.8                                | 547                          | 89                                                   |                                                                                       | 2.55                                                                     |
| MCX03/25  | 2x25+E6.0                                    | 200/0.40+84/0.30                             | 22.8                                | 749                          | 119                                                  |                                                                                       | 1.61                                                                     |
| MCX03/35  | 2x35+E10                                     | 280/0.40+80/0.40                             | 24.7                                | 1060                         | 149                                                  |                                                                                       | 1.17                                                                     |
| MCX04/10  | 3x10+E4.0                                    | 80/0.40+56/0.30                              | 17.6                                | 503                          | 67                                                   |                                                                                       | 4.05                                                                     |
| MCX04/16  | 3x16+E6.0                                    | 128/0.40+84/0.30                             | 20.3                                | 735                          | 89                                                   |                                                                                       | 2.55                                                                     |
| MCX04/25  | 3x25+E6.0                                    | 200/0.40+84/0.30                             | 24.7                                | 996                          | 119                                                  |                                                                                       | 1.61                                                                     |
| MCX04/35  | 3x35+E10                                     | 280/0.40+80/0.40                             | 27.7                                | 1332                         | 149                                                  |                                                                                       | 1.17                                                                     |
| MCX04/50  | 3x50+E16                                     | 400/0.40+128/0.40                            | 32.2                                | 1764                         | 187                                                  |                                                                                       | 0.868                                                                    |
| MCX04/70  | 3x70+E25                                     | 356/0.50+200/0.40                            | 37.5                                | 2508                         | 235                                                  |                                                                                       | 0.609                                                                    |
| MCX04/95  | 3x95+E25                                     | 485/0.50+200/0.40                            | 42.4                                | 3397                         | 282                                                  |                                                                                       | 0.450                                                                    |
| MCX04/120 | 3x120+E35                                    | 614/0.50+280/0.40                            | 44.7                                | 4470                         | 333                                                  |                                                                                       | 0.366                                                                    |
| MCX05/10  | 4x10+E4.0                                    | 80/0.40+56/0.30                              | 19.1                                | 617                          | 67                                                   |                                                                                       | 4.05                                                                     |
| MCX05/16  | 4x16+E6.0                                    | 128/0.40+84/0.30                             | 22.1                                | 912                          | 89                                                   |                                                                                       | 2.55                                                                     |
| MCX05/25  | 4x25+E6.0                                    | 200/0.40+84/0.30                             | 26.9                                | 1252                         | 119                                                  |                                                                                       | 1.61                                                                     |
| MCX05/35  | 4x35+E10                                     | 280/0.40+80/0.40                             | 30.3                                | 1680                         | 149                                                  |                                                                                       | 1.17                                                                     |
| MCX05/50  | 4x50+E16                                     | 400/0.40+128/0.40                            | 35.4                                | 2258                         | 187                                                  |                                                                                       | 0.868                                                                    |
| MCX05/70  | 4x70+E25                                     | 356/0.50+200/0.40                            | 41.4                                | 3237                         | 235                                                  |                                                                                       | 0.609                                                                    |
| MCX05/95  | 4x95+E25                                     | 485/0.50+200/0.40                            | 46.8                                | 4389                         | 282                                                  |                                                                                       | 0.450                                                                    |
| MCX05/120 | 4x120+E35                                    | 614/0.50+280/0.40                            | 50.4                                | 5800                         | 300                                                  |                                                                                       | 0.366                                                                    |

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## MCH SWA SERIES

**Standard Performance Fixed SWA  
Circular TPS Cable 0.6/1kV 90°C**



### APPLICATIONS:

**Control and Signals** For control circuits unenclosed, enclosed, direct burial.

**Direct Burial** Steel armour provides mechanical protection, allowing for the cable to withstand higher stresses, be buried directly and used in external or underground projects.

**Outdoor Use** Suitable for outdoor use and wet locations where mechanical protection is required.

**Armour For Earthing** The armouring is normally connected to earth and can be used as the circuit protective conductor (earth wire).

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

### PRODUCT FEATURES:

- Suitable for circuits buried direct
- Steel wire armoured
- UV stabilised
- Flame retardant
- Metre marking for better length control
- Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** V-90.

**Bedding Sheath** SPVC 5V-90.

**Armoured** Galvanised steel wire armoured.

**Outer Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C.

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** 0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colour** Multi Core – White (numbered).

**Relevant Standards** AS/NZS 1125, AS/NZS 3008, AS/NZS 3808, AS/NZS 5000.1, IEC 60332-1-2, AS/NZS 60079.14,

**RoHS** Compliant.

| Code         | No. of Cores x Size (mm <sup>2</sup> ) | Approx. Stranding No. of wires x mm | Diameter of Bedding (mm) | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed application | Nominal Amps Buried Direct | Max. D.C. Resistance @ 20°C m Ω/mt | Single Phase Volt Drop Conductor Temp: 75°C (Mv/Am) | Gland Size CW or FW |
|--------------|----------------------------------------|-------------------------------------|--------------------------|-------------------------------|------------------------|----------------------------------------------------------------------|----------------------------|------------------------------------|-----------------------------------------------------|---------------------|
|              |                                        |                                     |                          |                               |                        | Touching                                                             |                            |                                    |                                                     |                     |
| MCH02/1.5SWA | 2 x 1.5                                | 7/0.50                              | 8.5                      | 14.0                          | 340                    | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW20S             |
| MCH02/2.5SWA | 2 x 2.5                                | 7/0.67                              | 9.5                      | 15.0                          | 400                    | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW20S             |
| MCH03/1.5SWA | 3 x 1.5                                | 7/0.50                              | 8.9                      | 14.5                          | 350                    | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW20S             |
| MCH03/2.5SWA | 3 x 2.5                                | 7/0.67                              | 10.0                     | 15.6                          | 430                    | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW20S             |
| MCH04/1.5SWA | 4 x 1.5                                | 7/0.50                              | 9.8                      | 15.3                          | 400                    | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW20S             |
| MCH04/2.5SWA | 4 x 2.5                                | 7/0.67                              | 11.0                     | 16.5                          | 490                    | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW20S             |
| MCH07/1.5SWA | 7 x 1.5                                | 7/0.5                               | 11.6                     | 17.2                          | 520                    | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW20S             |
| MCH07/2.5SWA | 7 x 2.5                                | 7/0.67                              | 13.1                     | 19.6                          | 760                    | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW20              |
| MCH12/1.5SWA | 12 x 1.5                               | 7/0.50                              | 15.3                     | 21.8                          | 880                    | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW25S             |
| MCH12/2.5SWA | 12 x 2.5                               | 7/0.67                              | 17.4                     | 23.8                          | 1090                   | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW25              |
| MCH19/1.5SWA | 19 x 1.5                               | 7/0.50                              | 18.0                     | 25.2                          | 2010                   | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW25              |
| MCH19/2.5SWA | 19 x 2.5                               | 7/0.67                              | 20.5                     | 27.7                          | 1640                   | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW32              |
| MCH27/1.5SWA | 27 x 1.5                               | 7/0.50                              | 21.7                     | 29.0                          | 1595                   | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW32              |
| MCH27/2.5SWA | 27 x 2.5                               | 7/0.67                              | 24.7                     | 31.2                          | 2010                   | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW32              |
| MCH37/1.5SWA | 37 x 1.5                               | 7/0.50                              | 24.4                     | 31.7                          | 1676                   | 17                                                                   | 20                         | 13.6                               | 33                                                  | GMCW32              |
| MCH37/2.5SWA | 37 x 2.5                               | 7/0.67                              | 28.3                     | 35.9                          | 2410                   | 25                                                                   | 28                         | 7.41                               | 18                                                  | GMCW40              |

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# ON ALL FIRSTFLEX STOCKED CABLES

YES - THAT MEANS FROM 0.22mm<sup>2</sup> TO 630mm<sup>2</sup>



## MCP SWA SERIES

**Standard Performance Fixed SWA  
Circular TPS Cable 0.6/1kV 90°C**



### APPLICATIONS:

**Power** Suitable for mains and submains in a fixed application.

**Direct Burial** Steel armour provides mechanical protection, allowing for the cable to withstand higher stresses, be buried directly and used in external or underground projects.

**Outdoor Use** Suitable for outdoor use and wet locations where mechanical protection is required.

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

### PRODUCT FEATURES:

- ▶ Suitable for circuits buried direct
- ▶ Steel wire armoured
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Metre marking for better length control
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** V-90.

**Bedding Sheath** SPVC 5V-90.

**Armoured** Galvanised steel wire armoured.

**Outer Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** U<sub>0</sub>/U 0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

#### Standard Core Colours

2 Cores + E: Red, Black, Green/Yellow.

3 Cores + E: Red, White, Blue, Green/Yellow.

4 Cores + E: Red, White, Blue, Black, Green/Yellow.

**Relevant Standards** AS/NZS 1125, AS/NZS 3008, AS/NZS 3808, AS/NZS 5000.1, IEC 60332-1-2, AS/NZS 60079.14,

**RoHS** Compliant.

| Code         | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding<br>No. of wires x mm | Diameter of Bedding<br>(mm) | Approx. Overall Diameter<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed application | Nominal Amps Buried Direct | Max. D.C. Resistance<br>@ 20°C<br>m Ω/mt | 3 Phase Volt Drop<br>Conductor Temp:<br>75°C<br>(Mv/Am) | Gland Size<br>CW or FW |
|--------------|-------------------------------------------|----------------------------------------|-----------------------------|----------------------------------|---------------------------|----------------------------------------------------------------------|----------------------------|------------------------------------------|---------------------------------------------------------|------------------------|
|              |                                           |                                        |                             |                                  |                           | Touching                                                             |                            |                                          |                                                         |                        |
| MCP03G1.5SWA | 2x1.5+E1.5                                | 7/0.50+7/0.50                          | 9.1                         | 15                               | 380                       | 17                                                                   | 20                         | 13.6                                     | 28.6                                                    | GMCW20S                |
| MCP03G2.5SWA | 2x2.5+E2.5                                | 7/0.67+7/0.67                          | 10.1                        | 16.1                             | 450                       | 25                                                                   | 28                         | 7.41                                     | 15.6                                                    | GMCW20                 |
| MCP03G4.0SWA | 2x4.0+E2.5                                | 7/0.85+7/0.67                          | 11.9                        | 17.8                             | 665                       | 36                                                                   | 36                         | 4.61                                     | 9.71                                                    | GMCW20                 |
| MCP03G6.0SWA | 2x6.0+E2.5                                | 7/1.04+7/0.67                          | 13.0                        | 19.0                             | 750                       | 42                                                                   | 46                         | 3.08                                     | 6.49                                                    | GMCW20                 |
| MCP04G1.5SWA | 3x1.5+E1.5                                | 7/0.50+7/0.50                          | 9.9                         | 15.8                             | 430                       | 17                                                                   | 20                         | 13.6                                     | 28.6                                                    | GMCW20S                |
| MCP04G2.5SWA | 3x2.5+E2.5                                | 7/0.67+7/0.67                          | 11.1                        | 17.0                             | 510                       | 25                                                                   | 28                         | 7.41                                     | 15.6                                                    | GMCW20                 |
| MCP04G4.0SWA | 3x4.0+E2.5                                | 7/0.85+7/0.67                          | 12.9                        | 19.5                             | 760                       | 36                                                                   | 36                         | 4.61                                     | 9.71                                                    | GMCW25S                |
| MCP04G6.0SWA | 3x6.0+E2.5                                | 7/1.04+7/0.67                          | 14.2                        | 20.8                             | 880                       | 42                                                                   | 46                         | 3.08                                     | 6.49                                                    | GMCW25S                |
| MCP05G1.5SWA | 4x1.5+E1.5                                | 7/0.50+7/0.50                          | 10.8                        | 16.7                             | 490                       | 17                                                                   | 20                         | 13.6                                     | 28.6                                                    | GMCW20                 |
| MCP05G2.5SWA | 4x2.5+E2.5                                | 7/0.67+7/0.67                          | 12.1                        | 18.1                             | 710                       | 25                                                                   | 28                         | 7.41                                     | 15.6                                                    | GMCW20                 |
| MCP05G4.0SWA | 4x4.0+E2.5                                | 7/0.85+7/0.67                          | 14.3                        | 20.9                             | 850                       | 36                                                                   | 36                         | 4.61                                     | 9.71                                                    | GMCW25S                |
| MCP05G6.0SWA | 4x6.0+E2.5                                | 7/1.04+7/0.67                          | 15.7                        | 22.4                             | 980                       | 42                                                                   | 46                         | 3.08                                     | 6.49                                                    | GMCW25S                |

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## MCX SWA SERIES

**Standard Performance Fixed SWA  
Circular TPS Cable 0.6/1kV 90°C**



### APPLICATIONS:

**Power** Suitable for mains and submains in a fixed application.

**Direct Burial** Steel armour provides mechanical protection, allowing for the cable to withstand higher stresses, be buried directly and used in external or underground projects.

**Outdoor Use** Suitable for outdoor use and wet locations where mechanical protection is required.

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

### PRODUCT FEATURES:

- ▶ Suitable for circuits buried direct
- ▶ Steel wire armoured
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Metre marking for better length control
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** X-90.

**Bedding Sheath** SPVC 5V-90.

**Armoured** Galvanised steel wire armoured.

**Outer Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage**  $U_0/U$  0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black. (Orange on request).


#### Standard Core Colours

3 Cores: Red, Black, Green/Yellow.

4 Cores: Red, White, Blue, Green/Yellow.

5 Cores: Red, White, Blue, Black, Green/Yellow

**Relevant Standards** AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3008, AS/NZS 3808, IEC 60332-1-2, AS/NZS 60079.14, **RoHS** Compliant.

| Code        | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding<br>No. of wires x mm | Diameter of Bedding<br>(mm) | Approx. Overall Diameter<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps un-enclosed @ 30°C fixed application<br>Touching  | 3 Phase Volt Drop @ 50Hz/Max Conductor Temp<br>90°C (Mv/Am) |
|-------------|-------------------------------------------|----------------------------------------|-----------------------------|----------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| MCX03/10SWA | 2 x 10+E4.0                               | 7/1.35                                 | 13.4                        | 20                               | 890                       | 68                                                                                                                                                  | 4.05                                                        |
| MCX03/16SWA | 2 x 16+E6.0                               | 7/1.70                                 | 15.3                        | 22.1                             | 985                       | 91                                                                                                                                                  | 2.53                                                        |
| MCX03/25SWA | 2 x 25+E6.0                               | 19/1.35                                | 17.4                        | 25.1                             | 1440                      | 122                                                                                                                                                 | 1.61                                                        |
| MCX04/10SWA | 3 x 10+E4.0                               | 7/1.35                                 | 15.0                        | 22.0                             | 1123                      | 68                                                                                                                                                  | 4.05                                                        |
| MCX04/16SWA | 3 x 16+E6.0                               | 7/1.70                                 | 17.2                        | 24.5                             | 1420                      | 91                                                                                                                                                  | 2.55                                                        |
| MCX04/25SWA | 3 x 25+E6.0                               | 19/1.35                                | 19.8                        | 28.9                             | 1765                      | 122                                                                                                                                                 | 1.61                                                        |
| MCX04/35SWA | 3 x 35+E10                                | 19/1.53                                | 22.1                        | 30.7                             | 2257                      | 151                                                                                                                                                 | 1.17                                                        |
| MCX04/50SWA | 3 x 50+E16                                | 19/1.78                                | 25.1                        | 32.5                             | 2809                      | 185                                                                                                                                                 | 0.868                                                       |
| MCX04/70SWA | 3 x 70.0+E25                              | 19/2.14                                | 29.9                        | 38.1                             | 4024                      | 234                                                                                                                                                 | 0.609                                                       |
| MCX04/95SWA | 3 x 95.0+E25                              | 37/1.78                                | 33.2                        | 41.6                             | 4932                      | 289                                                                                                                                                 | 0.450                                                       |
| MCX05/10SWA | 4 x 10+E4.0                               | 7/1.35                                 | 16.7                        | 22.6                             | 1142                      | 68                                                                                                                                                  | 4.05                                                        |
| MCX05/16SWA | 4 x 16+E6.0                               | 7/1.70                                 | 19.1                        | 25.5                             | 1590                      | 91                                                                                                                                                  | 2.55                                                        |
| MCX05/25SWA | 4 x 25+E6.0                               | 19/1.35                                | 22.2                        | 29.0                             | 2141                      | 122                                                                                                                                                 | 1.61                                                        |
| MCX05/35SWA | 4 x 35+E10                                | 19/1.53                                | 24.9                        | 32.0                             | 2679                      | 151                                                                                                                                                 | 1.17                                                        |
| MCX05/50SWA | 4 x 50+E16                                | 19/1.78                                | 28.4                        | 36.6                             | 3700                      | 185                                                                                                                                                 | 0.868                                                       |
| MCX05/70SWA | 4 x 70.0+E25                              | 19/2.14                                | 33.6                        | 41.5                             | 4895                      | 234                                                                                                                                                 | 0.609                                                       |
| MCX05/95SWA | 4 x 95.0+E25                              | 37/1.78                                | 37.4                        | 45.9                             | 6121                      | 289                                                                                                                                                 | 0.450                                                       |

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## MCXVEC SERIES

**Standard Performance Fixed Service Cable 0.6/1kV 90°C**



### APPLICATIONS:

**Service Cables** For domestic, commercial and industrial purposes. Meets the requirements for connection to the point of supply on the Vector network.

**Consumer Mains** Underground domestic and commercial subdivisions.

### INSTALLATION CONDITIONS

- ▶ In ground (with mechanical protection)
- ▶ In duct
- ▶ In trench

### PRODUCT FEATURES:

- ▶ Plain annealed circular stranded conductor
- ▶ Metre marking for better length control
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** X-90 (XLPE)

**Outer Sheath** SPVC

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours**

2 Cores: Red, Black

4 Cores: Red, White, Blue, and Black

**Relevant Standards** AS/NZS 5000.1, AS/NZS 4026, AS/NZS 1125, AS/NZS 3008, AS/NZS 3808, IEC 60332-1-2, **RoHS** Compliant.

| Code       | No. of Cores x Size (mm <sup>2</sup> ) | Approx. Stranding | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps @ 30°C fixed application |                     | Single Phase Volt Drop 75°C (mV/Am) |
|------------|----------------------------------------|-------------------|-------------------------------|------------------------|---------------------------------------|---------------------|-------------------------------------|
|            |                                        | No. of wires x mm |                               |                        | Wiring enclosure in air (touching)    | Under ground wiring |                                     |
| MCXVEC2/16 | 2x16                                   | 7/1.70            | 10.5 x 18.5                   | 493                    | 90                                    | 105                 | 2.81                                |
| MCXVEC2/25 | 2x25                                   | 7/2.13            | 11.9 x 21.2                   | 837                    | 121                                   | 137                 | 1.78                                |

| Code       | No. of Cores x Size (mm <sup>2</sup> ) | Approx. Stranding | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps @ 30°C fixed application |                     | Three Phase Volt Drop 75°C (mV/Am) |
|------------|----------------------------------------|-------------------|-------------------------------|------------------------|---------------------------------------|---------------------|------------------------------------|
|            |                                        | No. of wires x mm |                               |                        | Wiring enclosure in air (touching)    | Under ground wiring |                                    |
| MCXVEC4/16 | 4x16                                   | 7/1.70            | 22.2                          | 715                    | 75                                    | 87                  | 2.43                               |
| MCXVEC4/25 | 4x25                                   | 7/2.13            | 25.6                          | 1240                   | 125                                   | 114                 | 1.54                               |

## NST TRAYSCREEN SERIES

**Standard Performance Fixed  
Neutral Screen Cable 0.6/1kV 90°C**

### APPLICATIONS:

**Trayscreen** Commercial cable tray installations.

**Consumer Mains** Domestic and commercial - only suitable for burial with added protection or in conduit.

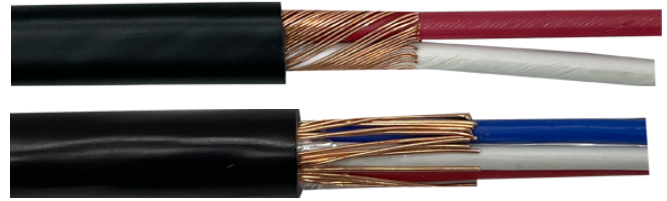
**Internal Wiring** Fixed applications between distributions boards.

**Motor Cabling** Fixed applications between motor control and electric motors.

**Lighting Circuits** Fixed applications for lighting circuits where mechanical protection is required.

### PRODUCT FEATURES:

- ▶ 1.8mm SPVC Sheath, Smaller OD compared to standard NS Cables
- ▶ SPVC sheath for ease of installation
- ▶ Metre marked for better length control
- ▶ UV Stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)



### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** V-90.

**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** -15 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage**  $U_0/U$  0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours**

2 Cores: Red, White.

3 Cores: Red, White, Blue.

4 Cores: Red, White, Blue, Black.

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, AS/NZS 4961, AS/NZS 5000, **RoHS** Compliant.

| Code                 | No. of<br>Cores x<br>Size<br><br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>no. of<br>Wires x mm | Approx.<br>Overall<br>Diameter<br><br>(H x W)<br>(mm) | Nominal<br>Outer<br>Sheath<br>Thickness<br><br>(mm) | Approx.<br>Weight<br><br>(Kg/Km) | Nominal Amps<br>@ 30°C Fixed Installation   |                                           |                           | Single<br>Phase Volt<br>Drop<br>75°C<br>(mV/Am) |
|----------------------|-----------------------------------------------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|----------------------------------|---------------------------------------------|-------------------------------------------|---------------------------|-------------------------------------------------|
|                      |                                                     |                                              |                                                       |                                                     |                                  | Wiring<br>enclosure<br>in air<br>(touching) | Enclosed<br>wiring<br>enclosure<br>in Air | Under<br>ground<br>wiring |                                                 |
| <b>NST2/2.5</b>      | 2 x 2.5                                             | 7/0.67                                       | 8.5 x 12.3                                            | 1.8                                                 | 200                              | 30                                          | 26                                        | 33                        | 18.02                                           |
| <b>NST2/4.0</b>      | 2 x 4.0                                             | 7/0.85                                       | 9.5 x 14.4                                            | 1.8                                                 | 270                              | 39                                          | 34                                        | 43                        | 11.22                                           |
| <b>NST2/6.0</b>      | 2 x 6.0                                             | 7/1.04                                       | 10.1 x 15.6                                           | 1.8                                                 | 330                              | 50                                          | 44                                        | 55                        | 7.50                                            |
| <b>NST2/2.5ROUND</b> | 2 x 2.5                                             | 7/0.67                                       | 12.2                                                  | 1.8                                                 | 240                              | 30                                          | 26                                        | 33                        | 18.02                                           |
| <b>NST2/4.0ROUND</b> | 2 x 4.0                                             | 7/0.85                                       | 14.0                                                  | 1.8                                                 | 300                              | 39                                          | 34                                        | 43                        | 11.22                                           |
| <b>NST2/6.0ROUND</b> | 2 x 6.0                                             | 7/1.04                                       | 15.2                                                  | 1.8                                                 | 360                              | 50                                          | 44                                        | 55                        | 7.50                                            |

| Code            | No. of<br>Cores x<br>Size<br><br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>no. of<br>Wires x mm | Approx.<br>Overall<br>Diameter<br><br>(mm) | Nominal<br>Outer<br>Sheath<br>Thickness<br><br>(mm) | Approx.<br>Weight<br><br>(Kg/Km) | Nominal Amps<br>@ 30°C Fixed Installation   |                                           |                           | Three<br>Phase Volt<br>Drop<br>75°C<br>(mV/Am) |
|-----------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------|---------------------------------------------|-------------------------------------------|---------------------------|------------------------------------------------|
|                 |                                                     |                                              |                                            |                                                     |                                  | Wiring<br>enclosure<br>in air<br>(touching) | Enclosed<br>wiring<br>enclosure<br>in Air | Under<br>ground<br>wiring |                                                |
| <b>NST3/2.5</b> | 3 x 2.5                                             | 7/0.67                                       | 13.2                                       | 1.8                                                 | 300                              | 25                                          | 23                                        | 28                        | 15.6                                           |
| <b>NST3/4.0</b> | 3 x 4.0                                             | 7/0.85                                       | 15.5                                       | 1.8                                                 | 410                              | 33                                          | 29                                        | 36                        | 9.71                                           |
| <b>NST3/6.0</b> | 3 x 6.0                                             | 7/1.04                                       | 16.8                                       | 1.8                                                 | 510                              | 42                                          | 38                                        | 46                        | 6.49                                           |
| <b>NST4/2.5</b> | 4 x 2.5                                             | 7/0.67                                       | 14.2                                       | 1.8                                                 | 350                              | 25                                          | 23                                        | 28                        | 15.6                                           |
| <b>NST4/4.0</b> | 4 x 4.0                                             | 7/0.85                                       | 16.8                                       | 1.8                                                 | 490                              | 33                                          | 29                                        | 36                        | 9.71                                           |
| <b>NST4/6.0</b> | 4 x 6.0                                             | 7/1.04                                       | 18.2                                       | 1.8                                                 | 610                              | 42                                          | 38                                        | 46                        | 6.49                                           |

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

## NSU SERIES

**Standard Performance Fixed  
Neutral Screen Cable 0.6/1kV 90°C**

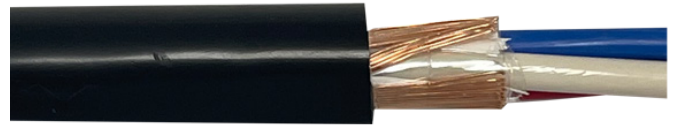
### APPLICATIONS:

**Consumer Mains** Underground domestic and commercial subdivisions.

**Internal Wiring** Fixed applications between distributions boards.

### PRODUCT FEATURES:

- ▶ 3.2mm SPVC Sheath for direct burial without added mechanical protection.
- ▶ SPVC sheath for ease of installation
- ▶ Suitable for circuits buried direct
- ▶ Metre marked for better length control
- ▶ UV Stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section).



### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** V-90.

**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** -15 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage**  $U_o/U$  0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

#### Standard Core Colours

Single: Red

2 Cores: Red, White.

3 Cores: Red, White, Blue.

4 Cores: Red, White, Blue, Black.

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, AS/NZS 4961, AS/NZS 5000.1, **RoHS** Compliant.

Product table continued over ►

## NSU SERIES continued

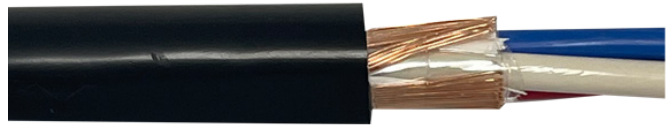
| Code     | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter<br>(H x W)<br>(mm x mm) | Nominal Outer Sheath Thickness<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps<br>@ 30°C Fixed Installation |               |                     | Single Phase Volt Drop<br>75°C<br>(mV/Am) |
|----------|-------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------|---------------------------|-------------------------------------------|---------------|---------------------|-------------------------------------------|
|          |                                           |                                     |                                                  |                                        |                           | Wiring enclosure in air (touching)        | Buried direct | Under ground wiring |                                           |
| NSU1/6.0 | 1 x 6                                     | 7/1.04                              | 13.0                                             | 3.2                                    | 310                       | 50                                        | 55            | 55                  | 7.50                                      |
| NSU1/10  | 1 x 10                                    | 7/1.35                              | 14.2                                             | 3.2                                    | 380                       | 68                                        | 73            | 73                  | 4.46                                      |
| NSU1/16  | 1 x 16                                    | 7/1.70                              | 16.0                                             | 3.2                                    | 520                       | 91                                        | 125           | 95                  | 2.81                                      |
| NSU1/25  | 1 x 25                                    | 7/2.14                              | 18.0                                             | 3.2                                    | 730                       | 122                                       | 162           | 123                 | 1.78                                      |
| NSU1/35  | 1 x 35                                    | 19/1.53                             | 19.3                                             | 3.2                                    | 950                       | 149                                       | 196           | 150                 | 1.28                                      |
| NSU2/2.5 | 2 x 2.5                                   | 7/0.67                              | 10.9 x 14.5                                      | 3.2                                    | 270                       | 30                                        | 33            | 33                  | 18.02                                     |
| NSU2/4.0 | 2 x 4.0                                   | 7/0.85                              | 11.8 x 16.3                                      | 3.2                                    | 360                       | 39                                        | 43            | 43                  | 11.22                                     |
| NSU2/6.0 | 2 x 6.0                                   | 7/1.04                              | 12.4 x 17.5                                      | 3.2                                    | 420                       | 50                                        | 55            | 55                  | 7.50                                      |
| NSU2/10  | 2 x 10                                    | 7/1.70                              | 13.5 x 19.5                                      | 3.2                                    | 580                       | 68                                        | 73            | 73                  | 4.46                                      |
| NSU2/16  | 2 x 16                                    | 7/2.14                              | 14.9 x 22.0                                      | 3.2                                    | 770                       | 91                                        | 125           | 95                  | 2.81                                      |

| Code     | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter<br>(H x W)<br>(mm x mm) | Nominal Outer Sheath Thickness<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps<br>@ 30°C Fixed Installation |               |                     | Three Phase Volt Drop<br>75°C<br>(mV/Am) |
|----------|-------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------|---------------------------|-------------------------------------------|---------------|---------------------|------------------------------------------|
|          |                                           |                                     |                                                  |                                        |                           | Wiring enclosure in air (touching)        | Buried direct | Under ground wiring |                                          |
| NSU3/2.5 | 3 x 2.5                                   | 7/0.67                              | 15.5                                             | 3.2                                    | 400                       | 25                                        | 28            | 28                  | 15.6                                     |
| NSU3/4.0 | 3 x 4.0                                   | 7/0.85                              | 17.5                                             | 3.2                                    | 520                       | 33                                        | 36            | 36                  | 9.71                                     |
| NSU3/6.0 | 3 x 6.0                                   | 7/1.04                              | 19.0                                             | 3.2                                    | 610                       | 42                                        | 46            | 46                  | 6.49                                     |
| NSU3/10  | 3 x 10                                    | 7/1.70                              | 20.9                                             | 3.2                                    | 800                       | 58                                        | 61            | 61                  | 3.86                                     |
| NSU3/16  | 3 x 16                                    | 7/2.14                              | 23.6                                             | 3.2                                    | 1030                      | 78                                        | 106           | 80                  | 2.43                                     |
| NSU4/2.5 | 4 x 2.5                                   | 7/0.67                              | 16.5                                             | 3.2                                    | 400                       | 25                                        | 28            | 28                  | 15.6                                     |
| NSU4/4.0 | 4 x 4.0                                   | 7/0.85                              | 18.7                                             | 3.2                                    | 520                       | 33                                        | 36            | 36                  | 9.71                                     |
| NSU4/6.0 | 4 x 6.0                                   | 7/1.04                              | 20.2                                             | 3.2                                    | 610                       | 42                                        | 46            | 46                  | 6.49                                     |
| NSU4/10  | 4 x 10                                    | 7/1.70                              | 22.5                                             | 3.2                                    | 800                       | 58                                        | 61            | 61                  | 3.86                                     |
| NSU4/16  | 4 x 16                                    | 7/2.14                              | 25.4                                             | 3.2                                    | 1030                      | 78                                        | 106           | 80                  | 2.43                                     |



## NSUX SERIES

**Standard Performance Fixed Neutral  
Screen Cable XLPE 0.6/1kV 90°C**



### APPLICATIONS:

**Consumer Mains** Underground domestic and commercial subdivisions.

**Internal Wiring** Fixed applications between distributions boards.

### PRODUCT FEATURES:

- ▶ 3.2mm SPVC Sheath for direct burial without added mechanical protection
- ▶ SPVC sheath for ease of installation
- ▶ Suitable for circuits buried direct
- ▶ Metre marked for better length control
- ▶ UV Stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** X-90.

**Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** -15 to 90°C

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

#### Standard Core Colours

Single: Red

2 Cores: Red, White.




3 Cores: Red, White, Blue.




4 Cores: Red, White, Blue, Black.

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, AS/NZS 4961, AS/NZS 5000.1, **RoHS** Compliant.

Product table continued over ►

## NSUX SERIES continued

| Code     | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter<br>(H x W)<br>(mm x mm) | Nominal Outer Sheath Thickness<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps @ 30°C Fixed Installation                                                                                 |                                                                                                   |                                                                                                         | Single Phase Volt Drop 75°C<br>(mV/Am) |
|----------|-------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------|
|          |                                           |                                     |                                                  |                                        |                           | Wiring enclosure in air (touching)  | Buried direct  | Under ground wiring  |                                        |
| NSUX1/16 | 1 x 16                                    | 7/1.70                              | 15.0                                             | 3.2                                    | 490                       | 107                                                                                                                    | 141                                                                                               | 105                                                                                                     | 2.81                                   |
| NSUX1/25 | 1 x 25                                    | 7/2.14                              | 17.4                                             | 3.2                                    | 710                       | 144                                                                                                                    | 182                                                                                               | 137                                                                                                     | 1.78                                   |
| NSUX1/35 | 1 x 35                                    | 19/1.53                             | 19.1                                             | 3.2                                    | 930                       | 178                                                                                                                    | 219                                                                                               | 165                                                                                                     | 1.28                                   |
| NSUX1/50 | 1 x 50                                    | 19/1.78                             | 21.2                                             | 3.2                                    | 1240                      | 217                                                                                                                    | 261                                                                                               | 198                                                                                                     | 0.96                                   |
| NSUX1/70 | 1 x 70                                    | 19/2.14                             | 23.5                                             | 3.2                                    | 1630                      | 275                                                                                                                    | 321                                                                                               | 244                                                                                                     | 0.67                                   |
| NSUX1/95 | 1 x 95                                    | 37/1.78                             | 26.4                                             | 3.2                                    | 2160                      | 340                                                                                                                    | 385                                                                                               | 299                                                                                                     | 0.50                                   |
| NSUX2/25 | 2 x 25                                    | 7/2.14                              | 16.3 x 24.1                                      | 3.2                                    | 1060                      | 144                                                                                                                    | 182                                                                                               | 137                                                                                                     | 1.78                                   |
| NSUX2/35 | 2 x 35                                    | 19/1.53                             | 17.3 x 26.1                                      | 3.2                                    | 1410                      | 178                                                                                                                    | 219                                                                                               | 165                                                                                                     | 1.28                                   |

| Code     | No. of Cores x Size<br>(mm <sup>2</sup> ) | Approx. Stranding no. of Wires x mm | Approx. Overall Diameter<br>(H x W)<br>(mm x mm) | Nominal Outer Sheath Thickness<br>(mm) | Approx. Weight<br>(Kg/Km) | Nominal Amps @ 30°C Fixed Installation                                                                                   |                                                                                                     |                                                                                                           | Three Phase Volt Drop 75°C<br>(mV/Am) |
|----------|-------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------|
|          |                                           |                                     |                                                  |                                        |                           | Wiring enclosure in air (touching)  | Buried direct  | Under ground wiring  |                                       |
| NSUX3/25 | 3 x 25                                    | 7/2.14                              | 25.4                                             | 3.2                                    | 1400                      | 122                                                                                                                      | 153                                                                                                 | 114                                                                                                       | 1.54                                  |
| NSUX3/35 | 3 x 35                                    | 19/1.53                             | 28.0                                             | 3.2                                    | 1840                      | 151                                                                                                                      | 184                                                                                                 | 139                                                                                                       | 1.11                                  |
| NSUX3/50 | 3 x 50                                    | 19/1.78                             | 31.8                                             | 3.2                                    | 2290                      | 185                                                                                                                      | 218                                                                                                 | 166                                                                                                       | 0.83                                  |
| NSUX3/70 | 3 x 70                                    | 19/2.14                             | 36.6                                             | 3.2                                    | 3160                      | 234                                                                                                                      | 269                                                                                                 | 207                                                                                                       | 0.58                                  |
| NSUX3/95 | 3 x 95                                    | 37/1.78                             | 40.5                                             | 3.2                                    | 4160                      | 289                                                                                                                      | 323                                                                                                 | 249                                                                                                       | 0.43                                  |
| NSUX4/25 | 4 x 25                                    | 7/2.14                              | 27.5                                             | 3.2                                    | 1690                      | 122                                                                                                                      | 153                                                                                                 | 114                                                                                                       | 1.54                                  |
| NSUX4/35 | 4 x 35                                    | 19/1.53                             | 30.3                                             | 3.2                                    | 2260                      | 151                                                                                                                      | 184                                                                                                 | 139                                                                                                       | 1.11                                  |
| NSUX4/50 | 4 x 50                                    | 19/1.78                             | 33.9                                             | 3.2                                    | 2830                      | 185                                                                                                                      | 218                                                                                                 | 166                                                                                                       | 0.83                                  |
| NSUX4/70 | 4 x 70                                    | 19/2.14                             | 39.1                                             | 3.2                                    | 3940                      | 234                                                                                                                      | 269                                                                                                 | 207                                                                                                       | 0.58                                  |
| NSUX4/95 | 4 x 95                                    | 37/1.78                             | 44.1                                             | 3.2                                    | 5200                      | 289                                                                                                                      | 323                                                                                                 | 249                                                                                                       | 0.43                                  |