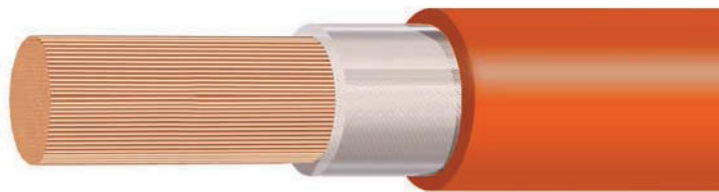


**XLPE/PVC  
(SDI) X-90  
0.6/1kV**



## **FLEXIBLE SINGLE CORE X-90 XLPE INSULATED AND PVC SHEATHED CABLE TO AS/NZS 5000.1**

For mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in underground ducts for building and industrial plants where not subject to mechanical damage. Suitable where space is at a premium and/or where conditions of overload may occur.

### **Cable Characteristics**



Flexible



OD ≤ 25 4D  
OD > 25 6D



1



Water Drops



Good



+90°C  
-25°C



C2



Good

### **Cable Design**

#### **CONDUCTOR:**

Flexible bunched annealed copper conductor to AS/NZS 1125 (Class 5)

**Maximum Continuous Operating Temperature:** 90°C

#### **INSULATION:**

X-90 XLPE (Flexible XLPE)

Colour: Natural

#### **SHEATH:**

5V-90 PVC

Colour: Orange

Note: These flexible cables are suitable for fixed applications only in accordance with AS/NZS 3000 + AS/NZS 5000.1

### **Installation Conditions**



INDUSTRIAL  
EQUIPMENT



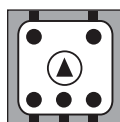
OD ≤ 25 6D  
OD > 25 9D



IN FREE AIR



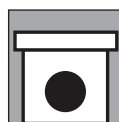
IN CONDUIT



MACHINES



0°C



IN TRENCH



IN GROUND WITH  
PROTECTION



IN DUCT

**XLPE/PVC  
(SDI) X-90  
0.6/1kV**

## Physical & Electrical Characteristics

### For fixed installation

| Product Code | Conductor      |                  | Cable                        |                  |         |              | Minimum Installed Bending Radius |
|--------------|----------------|------------------|------------------------------|------------------|---------|--------------|----------------------------------|
|              | Nominal C.S.A. | Nominal Diameter | Nominal Insulation Thickness | Overall Diameter |         | Approx. Mass |                                  |
|              |                |                  |                              | Minimum          | Maximum |              |                                  |
|              | mm²            | mm               | mm                           | mm               | mm      | kg/100m      | mm                               |
| 351CFF90     | 35             | 7.7              | 0.9                          | 11.9             | 12.7    | 38.7         | 76                               |
| 501CFF90     | 50             | 9.3              | 1.0                          | 13.7             | 14.5    | 53.5         | 87                               |
| 701CFF90     | 70             | 11.1             | 1.0                          | 15.7             | 16.5    | 72.9         | 99                               |
| 951CFF90     | 95             | 12.8             | 1.0                          | 17.5             | 18.4    | 94.2         | 110                              |
| 1201CFF90    | 120            | 14.5             | 1.2                          | 19.4             | 20.3    | 118.6        | 122                              |
| 1501CFF90    | 150            | 16.3             | 1.4                          | 21.7             | 22.7    | 147.4        | 136                              |
| 1851CFF90    | 185            | 18.0             | 1.6                          | 23.8             | 24.8    | 178.0        | 149                              |
| 2401CFF90    | 240            | 20.8             | 1.7                          | 26.9             | 28.0    | 231.8        | 168                              |
| 3001CFF90    | 300            | 23.4             | 1.8                          | 29.8             | 30.9    | 288.3        | 186                              |
| 4001CFF90    | 400            | 26.8             | 2.0                          | 33.8             | 35.0    | 376.2        | 210                              |
| 5001CFF90    | 500            | 30.3             | 2.2                          | 37.8             | 39.1    | 474.5        | 235                              |
| 6301CFF90    | 630            | 35.1             | 2.4                          | 43.2             | 44.6    | 628.9        | 268                              |

| Nominal C.S.A.  | Current Rating (a) |               |                     | Electrical Characteristics      |                                        |
|-----------------|--------------------|---------------|---------------------|---------------------------------|----------------------------------------|
|                 | Three Phase        |               |                     | Maximum D.C. Resistance at 20°C | Reactance per Core (Trefoil, Touching) |
|                 | Unenclosed Spaced  | Buried Direct | Underground in Duct |                                 |                                        |
| mm <sup>2</sup> | A                  | A             | A                   | Ω/km                            | Ω/km                                   |
| 35              | 177                | 180           | 134                 | 0.554                           | 0.0930                                 |
| 50              | 223                | 214           | 163                 | 0.386                           | 0.0901                                 |
| 70              | 283                | 262           | 203                 | 0.272                           | 0.0869                                 |
| 95              | 341                | 313           | 237                 | 0.206                           | 0.0849                                 |
| 120             | 406                | 356           | 279                 | 0.161                           | 0.0828                                 |
| 150             | 470                | 400           | 316                 | 0.129                           | 0.0830                                 |
| 185             | 540                | 452           | 357                 | 0.106                           | 0.0821                                 |
| 240             | 651                | 523           | 416                 | 0.0801                          | 0.0808                                 |
| 300             | 752                | 589           | 479                 | 0.0641                          | 0.0800                                 |
| 400             | 909                | 668           | 554                 | 0.0486                          | 0.0788                                 |
| 500             | 1062               | 752           | 642                 | 0.0384                          | 0.0780                                 |
| 630             | 1256               | 843           | 729                 | 0.0287                          | 0.0777                                 |

(a) Based on 90°C conductor temperature, 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil thermal resistivity of 1.2°C.m/W. Refer to AS/NZS 3008.1 for other installation conditions.