

## FX SERIES

### Extreme Performance Flexible Cable 0.6/1kV 90°C



#### APPLICATIONS:

**Food, Beverage & Laboratory** With its microbe and hydrolysis resistant and super durable PUR sheath this cable suits the food and beverage industry and laboratory environments.

**Mobile Tools** Suitable for floor sanding and drills where extreme wear resistance and reverse bending is required.

**Power** With its extra durable PUR sheath this cable is suitable for outdoor temporary power supplies, extension leads and agricultural equipment.

**Marine** Flexible tinned copper cable for installation on pleasure craft, ship to shore and other marine applications.

**Low Temperature** Extreme flexibility in low temperatures such as freezers and ski fields.

#### PRODUCT FEATURES:

- ▶ Halogen free
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Non-marking sheath
- ▶ Microbe & hydrolysis resistant
- ▶ Tinned fine stranded copper conductor
- ▶ Extreme resistance to abrasion, tearing & notching
- ▶ Resistant to environmental factors such as oxidation, ozone & sunlight
- ▶ Very good behavior to variations of outdoor temperatures
- ▶ High tensile strength, tearing strength & abrasion resistance
- ▶ Heat, oil & chemical resistant (See Technical Section)
- ▶ Good elongation at break
- ▶ Good dielectric properties
- ▶ Avian & rodent resistance
- ▶ Water & moisture resistance
- ▶ Yellow sheath for high visibility

#### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** LT-SER 90.

**Inner Sheath** LT-SER 90.

**Sheath** PUR halogen free polyurethane compound.

#### CHARACTERISTICS:

**Operating Temperature Range** Fixed -45°C to 90°C / Flexing -35°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<sub>o</sub>/U 0.6/1kV

**Max AC Operating Voltage** U<sub>o</sub> 0.7kV.

**Minimum Bending Radius** Fixed 5 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Yellow.

**Standard Core Colours**

3 Core – Blue, Brown, Green/Yellow.

4 Core – Brown, Black, Grey, Green/Yellow.

5 Core – Blue, Brown, Black, Grey, Green/Yellow.

**Relevant Standards** AS/NZS 1125, AS/NZS 5000.1, AS/NZS 3808 (For insulation & inner sheath), **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 un-enclosed protected from sun @ 30°C fixed application Touching | 3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp: 90°C (Mv/Am) |
|---------|--|-------------------------------------|-------------------------------|------------------------|---|--|
| FX3G1.5 | 3 x 1.5                                | 30/0.25                             | 11.2                          | 130                    | 25  | 30.000   |
| FX3G2.5 | 3 x 2.5                                | 50/0.25                             | 12.4                          | 191                    | 33  | 16.400   |
| FX3G6.0 | 3 x 6.0                                | 84/0.30                             | 16.7                          | 360                    | 47  | 6.800  |
| FX4G1.5 | 4 x 1.5                                | 30/0.25                             | 12.5                          | 162                    | 21  | 30.000   |
| FX4G2.5 | 4 x 2.5                                | 50/0.25                             | 13.7                          | 238                    | 29  | 16.400   |
| FX4G4.0 | 4 x 4.0                                | 56/0.30                             | 15.5                          | 331                    | 37  | 10.200   |
| FX4G6.0 | 4 x 6.0                                | 84/0.30                             | 17.8                          | 472                    | 47  | 6.800  |
| FX5G2.5 | 5 x 2.5                                | 50/0.25                             | 15.0                          | 291                    | 29  | 16.400   |
| FX5G6.0 | 5 x 6.0                                | 84/0.30                             | 19.8                          | 581                    | 47  | 6.800  |