

## FLEXIBLE MULTI CORE CABLES

### CHEMTUFF ONESKIN ON SERIES

Ultra Performance Flexible Rubber Single Sheath Cable 0.6/1kV 90°C

#### APPLICATIONS:

**Chemtuff** Used in applications that require a greater resistance to chemicals, solvents, oils and fats.

**Extension Leads** Used on construction sites due to its 0.6/1kV heavy duty insulation, outstanding flexibility and cable memory. Suitable for tough climatic and mechanical conditions.

**Power** For machine tools, construction and engineering equipment and conveyers.

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

**Lighting & Entertainment** With its extra durable SER sheath, this cable is suitable for outdoor temporary power supply and lighting leads.

#### PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extremely flexible
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Heat, oil and chemical resistant (See *Technical Section*)

See over for full product table ▶



#### CONSTRUCTION:

**Conductor** Annealed plain copper stranded extreme flexibility (Class 6).

**Insulation** X-90.

**Sheath** SER105.

#### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°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** Black, Orange (Blue, Yellow in 3 x 1.5mm only. Subject to availability).

#### Standard Core Colour

2 Core – Blue, Brown.


3 Core – Blue, Brown, Green/Yellow.

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

5 Core – Blue, Red, White, Black, Green/Yellow.

**Relevant Standards** AS/NZS 3191, AS/NZS 5000.1, AS/NZS 3308, IEC 60227, IEC 60332-1, **RoHS** Compliant.

## CHEMTUFF ONESKIN ON SERIES continued

| Code           | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight | Nominal Amps un-enclosed protected from sun @ 30°C fixed application                         | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp: |
|----------------|---------------------|-------------------|--------------------------|----------------|--|--|
|                | (mm <sup>2</sup> )  | No. of wires x mm | (mm)                     | (Kg/Km)        | Touching  | 90°C (Mv/Am)                                   |
| <b>ON2/1.5</b> | 2 x 1.5             | 48/0.20           | 9.0                      | 110            | 25   | 30.000   |
| <b>ON2/2.5</b> | 2 x 2.5             | 80/0.20           | 10.2                     | 162            | 33   | 16.400   |
| <b>ON3/1.5</b> | 3 x 1.5             | 48/0.20           | 9.7                      | 137            | 21   | 30.000   |
| <b>ON3/2.5</b> | 3 x 2.5             | 80/0.20           | 10.9                     | 184            | 29   | 16.400   |
| <b>ON3/4.0</b> | 3 x 4.0             | 127/0.20          | 13.3                     | 310            | 37   | 10.200   |
| <b>ON3/6.0</b> | 3 x 6.0             | 190/0.20          | 14.2                     | 396            | 47   | 6.800  |
| <b>ON4/1.5</b> | 4 x 1.5             | 48/0.20           | 10.7                     | 160            | 21   | 30.000   |
| <b>ON4/2.5</b> | 4 x 2.5             | 80/0.20           | 12.0                     | 229            | 29   | 16.400   |
| <b>ON4/4.0</b> | 4 x 4.0             | 127/0.20          | 14.6                     | 384            | 37   | 10.200   |
| <b>ON4/6.0</b> | 4 x 6.0             | 190/0.20          | 15.5                     | 496            | 47   | 6.800  |
| <b>ON4/10</b>  | 4 x 10.0            | 320/0.20          | 17.9                     | 890            | 67   | 4.050  |
| <b>ON4/16</b>  | 4 x 16.0            | 504/0.20          | 21.5                     | 1230           | 89   | 2.550  |
| <b>ON5/1.5</b> | 5 x 1.5             | 48/0.20           | 11.7                     | 198            | 21   | 30.000   |
| <b>ON5/2.5</b> | 5 x 2.5             | 80/0.20           | 13.2                     | 279            | 29   | 16.400   |
| <b>ON5/4.0</b> | 5 x 4.0             | 127/0.20          | 16.3                     | 472            | 37   | 10.200   |
| <b>ON5/6.0</b> | 5 x 6.0             | 190/0.20          | 16.8                     | 607            | 47   | 6.800  |
| <b>ON5/10</b>  | 5x 10.0             | 320/0.20          | 19.5                     | 1140           | 67   | 4.050  |
| <b>ON5/16</b>  | 5 x 16.0            | 504/0.20          | 23.6                     | 1549           | 89   | 2.550  |