

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 Uo/U 0.6/1kV.

Max AC Operating Voltage Uo 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 3808, IEC 60227, IEC 60332-1, **RoHS** Compliant.

CHEMTUFF ONESKIN ON SERIES continued

| Code | No. of Cores x Size (mm ²) | 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  | Single Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am) |
|---------|--|--|---|----------------------------------|--|---|
| ON2/1.5 | 2 x 1.5 | 48/0.20 | 9.0 | 110 | 25 | 34.65 |
| ON2/2.5 | 2 x 2.5 | 80/0.20 | 10.2 | 162 | 33 | 18.94 |
| ON3/1.5 | 3 x 1.5 | 48/0.20 | 9.7 | 137 | 25 | 34.65 |
| ON3/2.5 | 3 x 2.5 | 80/0.20 | 10.9 | 184 | 33 | 18.94 |
| ON3/4.0 | 3 x 4.0 | 127/0.20 | 13.3 | 310 | 44 | 11.78 |
| ON3/6.0 | 3 x 6.0 | 190/0.20 | 14.2 | 396 | 56 | 7.85 |
| ON3/10 | 3 x 10.0 | 320/0.20 | 16.3 | 500 | 79 | 4.68 |
| ON3/16 | 3 x 16.0 | 504/0.20 | 19.5 | 745 | 106 | 2.95 |
| Code | No. of Cores x Size (mm ²) | 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) |
| ON4/1.5 | 4 x 1.5 | 48/0.20 | 10.7 | 160 | 21 | 30.00 |
| ON4/2.5 | 4 x 2.5 | 80/0.20 | 12.0 | 229 | 29 | 16.40 |
| ON4/4.0 | 4 x 4.0 | 127/0.20 | 14.6 | 384 | 37 | 10.20 |
| ON4/6.0 | 4 x 6.0 | 190/0.20 | 15.5 | 496 | 47 | 6.80 |
| ON4/10 | 4 x 10.0 | 320/0.20 | 17.9 | 890 | 67 | 4.05 |
| ON4/16 | 4 x 16.0 | 504/0.20 | 21.5 | 1230 | 89 | 2.55 |
| ON5/1.5 | 5 x 1.5 | 48/0.20 | 11.7 | 198 | 21 | 30.00 |
| ON5/2.5 | 5 x 2.5 | 80/0.20 | 13.2 | 279 | 29 | 16.40 |
| ON5/4.0 | 5 x 4.0 | 127/0.20 | 16.3 | 472 | 37 | 10.20 |
| ON5/6.0 | 5 x 6.0 | 190/0.20 | 16.8 | 607 | 47 | 6.80 |
| ON5/10 | 5 x 10.0 | 320/0.20 | 19.5 | 1140 | 67 | 4.05 |
| ON5/16 | 5 x 16.0 | 504/0.20 | 23.6 | 1549 | 89 | 2.55 |