

CHEMTUFF TWINSKIN HD SERIES

Ultra Performance Flexible Rubber Double 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 outstanding flexibility and cable memory. Suitable for tough climatic and mechanical conditions.

Power With a separator acting as a second sheath this cable provides extra safety 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 5 & 6).

Insulation X-90.

Separator An added separator or bedding of extruded V-90HT material for safety and durability. Silicate powder lubricant between cores and inner sheath to reduce friction.

Sheath SER105.

CHARACTERISTICS:

Operating Temperature Range Fixed -40°C to 90°C / Flexing -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_o/U 0.6/1kV.

Max AC Operating Voltage U_o 0.7kV.

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

Sheath Colour Black, Orange (Available in Yellow - HDT Series).

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 TWINSKIN HD 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 ²) | No. of wires x mm | (mm) | (Kg/Km) | Touching  | 90°C (Mv/Am) |
| HD02/1.5 | 2 x 1.5 | 48/0.20 | 10.0 | 130 | 25 | 30.000 |
| HD02/2.5 | 2 x 2.5 | 80/0.20 | 10.8 | 165 | 33 | 16.400 |
| HD03/1.0 | 3 x 1.0 | 32/0.20 | 9.8 | 90 | 17 | 46.800 |
| HD03/1.5 | 3 x 1.5 | 48/0.20 | 10.5 | 140 | 21 | 30.000 |
| HD03/2.5 | 3 x 2.5 | 80/0.20 | 12.4 | 194 | 29 | 16.400 |
| HD03/4.0 | 3 x 4.0 | 127/0.20 | 14.4 | 319 | 37 | 10.200 |
| HD03/6.0 | 3 x 6.0 | 190/0.20 | 15.9 | 406 | 47 | 6.800 |
| HD04/1.5 | 4 x 1.5 | 48/0.20 | 11.6 | 170 | 21 | 30.000 |
| HD04/2.5 | 4 x 2.5 | 80/0.20 | 14.0 | 239 | 29 | 16.400 |
| HD04/4.0 | 4 x 4.0 | 127/0.20 | 16.0 | 394 | 37 | 10.200 |
| HD04/6.0 | 4 x 6.0 | 190/0.20 | 19.0 | 505 | 47 | 6.800 |
| HD04/10 | 4 x 10.0 | 318/0.20 | 25.8 | 975 | 67 | 4.050 |
| HD04/16 | 4 x 16.0 | 504/0.20 | 28.6 | 1285 | 89 | 2.550 |
| HD05/1.5 | 5 x 1.5 | 48/0.20 | 13.0 | 210 | 21 | 30.000 |
| HD05/2.5 | 5 x 2.5 | 80/0.20 | 15.4 | 289 | 29 | 16.400 |
| HD05/4.0 | 5 x 4.0 | 127/0.20 | 17.4 | 482 | 37 | 10.200 |
| HD05/6.0 | 5 x 6.0 | 190/0.20 | 21.0 | 619 | 47 | 6.800 |
| HD05/10 | 5 x 10.0 | 318/0.20 | 28.1 | 1190 | 67 | 4.050 |
| HD05/16 | 5 x 16.0 | 504/0.20 | 31.7 | 1590 | 89 | 2.550 |