

# ÖLFLEX® SDP TC

UDB781404EN

Date: July 1, 2023

## 1. APPLICATION

ÖLFLEX® SDP TC is a motor supply cable with Bus Drop approval. It is designed with more flexible stranding and a pressure-extruded jacket, which makes routing easier. ÖLFLEX® SDP TC is also UL TC-ER and c(UL) CIC/TC-ER approved for tray applications.

### Applications:

Motor connections in industrial environments; automotive machinery; machine tool; food and beverage industry

### Underwriters Laboratories

For Tray use in exposed run applications, Wind Turbines, Flexible Motor Supply etc. and internal or external wiring of electrical and electronic equipment.

### Canadian Standards

For Control Instrumentation, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

## 2. CABLE DESCRIPTION

- Bare copper fine wire
- PVC/Nylon insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- Orange UV, oil and flame resistant specially formulated thermoplastic elastomer jacket

## 3. TECHNICAL DATA

|                     |                                                                                                                         |                 |  |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Conductor Stranding | 16 AWG (1,50 mm²) to 6 AWG (16,0 mm²): Class 5 (IEC 60228; VDE 0295)<br>4 AWG (21,0 mm²) and larger: Class K            |                 |  |
| Design / Make-up    | Cable is designed in accordance with the requirements of UL Standard1277 and with CSA standards C22.2 No. 230 & No. 239 |                 |  |
| Insulation          | Specially formulated PVC insulation with Nylon                                                                          |                 |  |
| Color Code          | Black conductors with white numbers plus green/yellow (30% stripe width)                                                |                 |  |
| Outer Sheath        | Specially formulated thermoplastic elastomer (TPE) jacket                                                               |                 |  |
| Nominal Voltage     | UL / CSA TC:                                                                                                            | 600V            |  |
|                     | UL WTTC:                                                                                                                | 1000V           |  |
|                     | VDE U <sub>0</sub> /U:                                                                                                  | 600/1000V       |  |
| Test Voltage        | 2000V                                                                                                                   |                 |  |
| Min Bend radius     | For installation:                                                                                                       | 5 x OD          |  |
| Temperature Range   | UL/CSA TC:                                                                                                              | -25°C to +90°C  |  |
|                     | For stationary use:                                                                                                     | -40°C to +105°C |  |
|                     | For flexible use:                                                                                                       | -25°C to +105°C |  |
| Cable Attributes    | OR-03, FR-03, FL-01, MP-03<br>Sunlight resistant. Direct Burial                                                         |                 |  |

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| Approvals  | UL MTW (Machine-Tool Wire) per UL 1063<br>UL AWM 20886 (Appliance Wiring Material) per UL 758<br>UL Type TC (Tray Cable) - ER* (Exposed Run) per UL 1277<br>UL WTTC (Wind Turbine Tray Cable) per UL 2277<br>UL Bus Drop Cable (14AWG and larger)<br>c(UL) CIC/TC-ER FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230<br>CSA AWM I/II A/B FT4 per CSA C22.2 No. 210 |
| Additional | NEC Article 336, Article 501<br>NFPA 79<br>VDE 250-1 (meets rated voltage requirements only)<br>LVD 2014/35/EU (Low Voltage Directive)<br>RoHS directive                                                                                                                                                                                                         |