

# LUTZE SILFLEX® (C) Tray-ER TPE, Shielded

Flexible Shielded Premium TPE Tray Cable with UL/TC-ER/WTTC/MTW/CE Approvals



## Application

- Shielded multi-conductor cable for tray applications, with **exposed run** (open wiring) approval
- Compliant with **NFPA 79** for machine tool wiring
- **TC-ER** for use with cable trays **without conduit**, which can reduce material and labor costs
- Metal cutting equipment, machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp and wet locations

## Characteristics

- Flexible design with Nylon for crush impact resistance per UL 1277 and easy installation
- Specially formulated TPE jacket for superior oil resistance
- Cutting oil resistant - mineral & bio/vegetable based oils *specifically tested with plant based cutting oil*
- Non-wicking fillers
- Sunlight resistant
- Direct burial
- UL Type TC-Exposed Run
- Talc and Silicone free

## Technical Data

|                   |  |
|-------------------|--|
| Voltage           | 600V UL TC-ER 90C<br>600V UL MTW 90C<br>1000V WTTC 90C<br>600V UL AWM 105C   |
| Temperature       | -40°C - +90°C static   |
| Bending radius    | 6 x cable OD   |
| Conductor marking | Black with white numbers and one green/yellow ground   |
| Oil resistance    | Oil Res I and Oil Res II   |
| Approvals         | UL Type TC-ER<br>UL/CE<br>UL AWM Style 21270<br>(UL) Type MTW or DP-1<br>WTTC<br>Class I, II Div. 2 per NEC<br>Art. 336, 392, 501, 502<br>c(UL) TC<br>CIC FT4<br>UL1277<br>RoHS<br>REACH |

## Construction

- AWG conductor
- Flexible fine wire stranded bare copper conductors
- PVC/Nylon insulation / THHN – THWN
- Shielded with foil tape, tinned copper braid and drain wire
- Extremely oil resistant TPE jacket
- Black jacket RAL 9005

Specifications are subject to change without prior notice

| Part No.               | Description<br>No. of conductors<br>incl. ground | OD / Ø<br>ca. mm | OD / Ø<br>inches | Weight<br>Lbs/Mft | Copper<br>Lbs/Mft |
|------------------------|--|------------------|------------------|-------------------|-------------------|
| <b>AWG 18 (16/30)</b>  |  |                  |                  |                   |                   |
| A3311803               | AWG18/03C  | 7.8              | 0.307            | 76                | 27                |
| A3311804               | AWG18/04C  | 8.2              | 0.323            | 87                | 36                |
| A3311805               | AWG18/05C  | 9.0              | 0.354            | 99                | 42                |
| A3311807               | AWG18/07C  | 9.6              | 0.379            | 116               | 54                |
| A3311812               | AWG18/12C  | 12.2             | 0.479            | 176               | 85                |
| A3311818               | AWG18/18C  | 14.9             | 0.588            | 264               | 127               |
| A3311825               | AWG18/25C  | 17.3             | 0.681            | 368               | 194               |
| <b>AWG 16 (26/30)</b>  |  |                  |                  |                   |                   |
| A3311603               | AWG16/03C  | 8.5              | 0.335            | 92                | 41                |
| A3311604               | AWG16/04C  | 9.0              | 0.354            | 106               | 51                |
| A3311605               | AWG16/05C  | 9.9              | 0.389            | 121               | 61                |
| A3311607               | AWG16/07C  | 10.6             | 0.418            | 149               | 80                |
| A3311612               | AWG16/12C  | 14.5             | 0.569            | 254               | 134               |
| A3311618               | AWG16/18C  | 16.6             | 0.655            | 353               | 191               |
| A3311625               | AWG16/25C  | 18.8             | 0.740            | 462               | 256               |
| <b>AWG 14 (41/30)</b>  |  |                  |                  |                   |                   |
| A3311403               | AWG14/03C  | 9.2              | 0.363            | 113               | 59                |
| A3311404               | AWG14/04C  | 9.9              | 0.391            | 133               | 74                |
| A3311405               | AWG14/05C  | 10.6             | 0.418            | 154               | 89                |
| A3311407               | AWG14/07C  | 11.6             | 0.457            | 200               | 117               |
| A3311412               | AWG14/12C  | 15.8             | 0.620            | 339               | 201               |
| <b>AWG 12 (65/30)</b>  |  |                  |                  |                   |                   |
| A3311203               | AWG12/03C  | 10.4             | 0.409            | 148               | 88                |
| A3311204               | AWG12/04C  | 11.1             | 0.437            | 179               | 111               |
| A3311205               | AWG12/05C  | 12.2             | 0.480            | 216               | 134               |
| <b>AWG 10 (105/30)</b> |  |                  |                  |                   |                   |
| A3311004               | AWG10/04C  | 14.4             | 0.565            | 291               | 178               |