

# Lutze Silflex® N (C) VFD PVC 0.6/1kV, Shielded

## Flexible VFD & Motor Cable with UL/TC-ER/WTTC/MTW/CSA/CE Approvals



### Application

- Shielded multi-conductor cable for VFD and Motor applications to connect power from drives to motors
- Cable design for harsh industrial environments and operating conditions with high noise levels
- Due to semi-conductive layer suitable for applications with high voltage spikes and long cable runs
- Compliant with **NFPA 79** for machine tool wiring
- **TC-ER** for use with cable trays **without conduit**, which can reduce material and labor costs
- WTTC – wind turbine tray cable rating for use in wind power generation

### Characteristics

- Flexible design with Nylon for crush impact resistance per UL 1277 and easy installation
- Very round cable with small Diameter
- Specially formulated jacket for oil resistance
- Semi-conductive layer prevents premature cable failure and reduces corona effects, thus increasing the reliability and lifetime (production after 05/2009)
- Non-wicking fillers
- RoHS compliant
- Sunlight resistant
- Direct burial
- UL Type TC-Exposed Run
- Dry or wet conditions
- Talc free
- Silicone free

### Technical Data

|                   |   |
|-------------------|---|
| Voltage           | 600V UL TC<br>1000V WTTC  |
| Temperature       | -40°C - +90°C static  |
| Bending radius    | 6 x cable OD  |
| Conductor marking | Black with white numbers and one green/yellow ground  |
| Approvals         | UL Type TC-ER<br>UL/AWM/CSA/CE<br>UL MTW or DP-1<br>WTTC<br>Class 1, Div. 2 per NEC Art. 336, 392, 501<br>C(UL) TC and CIC FT4<br>UL 1277<br>RoHS |

### Construction

- Flexible fine wire stranded tinned copper conductors for improved electrical characteristics and reduced oxidation
- PVC/Nylon insulation with semi-conductive layer
- Shielded with foil tape, tinned copper braid and drain wire
- Oil resistant black or orange PVC jacket

| 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>Kg/km |
|---------------------|--|------------------|------------------|-------------------|-----------------|
|                     | <b>AWG 18 (19/30)</b>                            |                  |                  |                   |                 |
| <b>A1161804</b>     | 4  | 9.7              | 0.384            | 96                | 38              |
|                     | <b>AWG 16 (26/30)</b>                            |                  |                  |                   |                 |
| <b>A1161604</b>     | 4  | 10.2             | 0.402            | 112               | 49              |
|                     | <b>AWG 14 (41/30)</b>                            |                  |                  |                   |                 |
| <b>A1161404</b>     | 4  | 11.4             | 0.448            | 151               | 74              |
|                     | <b>AWG 12 (65/30)</b>                            |                  |                  |                   |                 |
| <b>A1161204</b>     | 4  | 12.8             | 0.503            | 203               | 112             |
|                     | <b>AWG 10 (105/30)</b>                           |                  |                  |                   |                 |
| <b>A1161004</b>     | 4  | 16.7             | 0.658            | 320               | 171             |
|                     | <b>AWG 8 (168/30)</b>                            |                  |                  |                   |                 |
| <b>A1160804</b>     | 4  | 21.0             | 0.827            | 481               | 268             |
|                     | <b>AWG 6 (266/30)</b>                            |                  |                  |                   |                 |
| <b>A1160604</b>     | 4  | 24.3             | 0.957            | 721               | 410             |
|                     | <b>AWG 4 (413/30)</b>                            |                  |                  |                   |                 |
| <b>A1160404</b>     | 4  | 29.4             | 1.157            | 1,086             | 620             |
|                     | <b>AWG 2 (665/30)</b>                            |                  |                  |                   |                 |
| <b>A1160204</b>     | 4  | 33.9             | 1.336            | 1,518             | 978             |
|                     | <b>Orange Jacket</b>                             |                  |                  |                   |                 |
|                     | <b>AWG 18 (19/30)</b>                            |                  |                  |                   |                 |
| <b>A1161804-ORG</b> | 4  | 9.7              | 0.384            | 96                | 38              |
|                     | <b>AWG 16 (26/30)</b>                            |                  |                  |                   |                 |
| <b>A1161604-ORG</b> | 4  | 10.2             | 0.402            | 112               | 49              |
|                     | <b>AWG 14 (41/30)</b>                            |                  |                  |                   |                 |
| <b>A1161404-ORG</b> | 4  | 11.4             | 0.448            | 151               | 74              |
|                     | <b>AWG 12 (65/30)</b>                            |                  |                  |                   |                 |
| <b>A1161204-ORG</b> | 4  | 12.8             | 0.503            | 203               | 112             |
|                     | <b>AWG 10 (105/30)</b>                           |                  |                  |                   |                 |
| <b>A1161004-ORG</b> | 4  | 16.7             | 0.658            | 320               | 171             |