

# LUTZE SILFLEX® Control Cable (C) PVC, Shielded

## Flexible Control and Tray Cable with UL/TC-ER-JP/WTTC/ITC-ER/PLTC-ER/MTW/CE Approvals



### Application

- Multi-conductor cable for tray and control applications, with **exposed run** (open wiring) approval
- Machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications
- Compliant with **NFPA 79** requirements
- TC-ER-JP for use on machines and in cable trays without conduit, which can reduce material and labor costs (AWG 18 and larger)
- WTTC – wind turbine tray cable rating for use in wind power generation (AWG 18 and larger)
- PLTC-ER – power limited tray cable exposed run
- ITC-ER – instrumentation tray cable
- Dry, damp or wet locations

### Characteristics

- Flexible design with Nylon for crush impact resistance per UL 1277 and easy installation
- Specially formulated jacket for oil resistance
- Gray jacket for control cable applications
- Non-wicking fillers
- Sunlight resistant
- Direct burial (AWG 18 and larger)
- Talc and Silicone free
- Joist Pull approval per 2017 NEC 336.10(9)\*\*

### Technical Data

|                        |                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                | <b>AWG 20</b><br>600V UL MTW<br>300V PLTC-ER<br><b>AWG 18 and larger</b><br>600V UL TC-ER-JP/MTW<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<br>*2C no ground included                                                                                                         |
| Oil resistance         | Oil Res II                                                                                                                                                                             |
| Approvals              | UL/AWM/CE<br>AWM Style 20886<br>(UL) Type MTW or DP-1<br>Class I, II Div. 2 per NEC<br>Art. 336, 392, 501, 502<br>c(UL) TC and CIG FT4<br>UL 1277<br>RoHS<br>REACH                     |
| AWG specific approvals | <b>AWG 20</b><br>PLTC-ER and ITC-ER<br><b>AWG 18 to AWG 12</b><br>TC-ER-JP** and WTTC<br>PLTC-ER and ITC-ER<br>*2C TC approval only<br><b>AWG 10 and larger</b><br>TC-ER-JP** and WTTC |

### 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
- Oil resistant PVC jacket, gray, similar to RAL 7001

| 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 20 (10/30)</b>  |                                                  |                  |                  |                   |                   |
| <b>A3092003</b>        | AWG20/03C                                        | 7.5              | 0.295            | 56                | 20                |
| <b>A3092004</b>        | AWG20/04C                                        | 8.0              | 0.315            | 65                | 25                |
| <b>A3092005</b>        | AWG20/05C                                        | 8.5              | 0.336            | 74                | 28                |
| <b>A3092007</b>        | AWG20/07C                                        | 9.1              | 0.360            | 92                | 36                |
| <b>A3092012</b>        | AWG20/12C                                        | 11.4             | 0.450            | 131               | 56                |
| <b>A3092018</b>        | AWG20/18C                                        | 13.2             | 0.520            | 181               | 78                |
| <b>A3092025</b>        | AWG20/25C                                        | 15.7             | 0.620            | 246               | 102               |
| <b>AWG 18 (19/30)</b>  |                                                  |                  |                  |                   |                   |
| <b>A3091802</b>        | AWG18/02C*                                       | 7.7              | 0.305            | 61                | 23                |
| <b>A3091803</b>        | AWG18/03C                                        | 8.1              | 0.320            | 71                | 30                |
| <b>A3091804</b>        | AWG18/04C                                        | 8.8              | 0.345            | 86                | 36                |
| <b>A3091805</b>        | AWG18/05C                                        | 9.3              | 0.368            | 100               | 44                |
| <b>A3091807</b>        | AWG18/07C                                        | 10.0             | 0.395            | 121               | 58                |
| <b>A3091812</b>        | AWG18/12C                                        | 12.7             | 0.500            | 180               | 91                |
| <b>A3091818</b>        | AWG18/18C                                        | 15.5             | 0.609            | 268               | 131               |
| <b>A3091825</b>        | AWG18/25C                                        | 17.6             | 0.692            | 342               | 177               |
| <b>AWG 16 (26/30)</b>  |                                                  |                  |                  |                   |                   |
| <b>A3091603</b>        | AWG16/03C                                        | 8.7              | 0.343            | 87                | 39                |
| <b>A3091604</b>        | AWG16/04C                                        | 9.4              | 0.370            | 102               | 48                |
| <b>A3091605</b>        | AWG16/05C                                        | 10.1             | 0.398            | 119               | 58                |
| <b>A3091607</b>        | AWG16/07C                                        | 10.9             | 0.430            | 145               | 75                |
| <b>A3091612</b>        | AWG16/12C                                        | 14.6             | 0.575            | 239               | 121               |
| <b>A3091618</b>        | AWG16/18C                                        | 16.9             | 0.664            | 327               | 174               |
| <b>A3091625</b>        | AWG16/25C                                        | 19.6             | 0.757            | 423               | 233               |
| <b>AWG 14 (41/30)</b>  |                                                  |                  |                  |                   |                   |
| <b>A3091403</b>        | AWG14/03C                                        | 9.5              | 0.375            | 110               | 57                |
| <b>A3091404</b>        | AWG14/04C                                        | 10.3             | 0.405            | 133               | 72                |
| <b>A3091405</b>        | AWG14/05C                                        | 11.2             | 0.440            | 154               | 85                |
| <b>A3091407</b>        | AWG14/07C                                        | 12.1             | 0.475            | 194               | 113               |
| <b>A3091412</b>        | AWG14/12C                                        | 16.3             | 0.640            | 316               | 182               |
| <b>AWG 12 (65/30)</b>  |                                                  |                  |                  |                   |                   |
| <b>A3091203</b>        | AWG12/03C                                        | 10.8             | 0.425            | 150               | 89                |
| <b>A3091204</b>        | AWG12/04C                                        | 11.7             | 0.460            | 182               | 110               |
| <b>AWG 10 (105/30)</b> |                                                  |                  |                  |                   |                   |
| <b>A3091004</b>        | AWG10/04C                                        | 15.2             | 0.600            | 284               | 169               |

Specifications are subject to change without prior notice  
\*\* JP starting productions 3/2017

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