

LUTZE SILFLEX® M (C) Motor TPE, Shielded

Flexible Motor Cable with UL/TC-ER/WTTC/MTW/CE Approvals
Similar to Allen-Bradley® 2090 and other servo system cables



Application

- Bulk cable similar to Allen-Bradley® 2090 and other servo system cables for stationary applications and installation in cable trays.
- Cable design for harsh industrial environments and operating conditions with high noise levels
- Improved insulation design with additional conductor stress relief layer as a power distortion suppressant
- Compliant with NFPA 79 for machine tool wiring
- TC-ER for use with cable trays without conduit, which can reduce material and labor costs
- Dry, damp and wet locations

Characteristics

- Improved design with conductor stress relief layer helps to prevent premature cable failure and reduces corona effects, increasing reliability and lifetime
- Flexible design with Nylon for crush impact resistance per UL 1277 and easy installation
- Very round cable with small diameter
- Specially formulated TPE jacket for superior oil resistance per Oil Res I and II
- Resistant to many mineral and vegetable based cutting oils
- Non-wicking fillers
- Sunlight resistant
- Direct burial
- UL Type TC-Exposed Run
- Talc and Silicone free

Technical Data

| | |
|-------------------|---|
| Voltage | 600V UL TC 600V UL MTW 1000V WTTC 1000V Flexible Motor Supply |
| Temperature | 600V UL AWM 105C -40°C - +90°C (105C) |
| Bending radius | 6 x cable OD |
| Conductor marking | Power: brown, black, blue Ground: green/yellow Control pair: black/white |
| Approvals | UL Flexible Motor Supply Cable UL TC-ER UL/AWM/CE UL MTW WTTC UL AWM Style 20328 Class I, II Div. 2 per NEC Art. 336, 392, 501, 502 c(UL) TC CIC FT4 UL 1277 Oil Res I and II RoHS REACH |

Construction

- AWG conductor
- Flexible fine wire stranded bare copper conductors
- PVC/Nylon insulation with conductor stress relief layer
- Shielded with tinned copper braid, optical coverage ≥ 85%
- Oil resistant orange TPE jacket

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Specifications are subject to change without prior notice

| Part No. | Description No. of conductors incl. ground | OD - Ø ca. mm | OD - Ø inches | Weight Lbs/Mft | Copper Lbs/Mft |
|-----------------|--|------------------|------------------|-------------------|-------------------|
| | AWG 16 (26/30) | | | | |
| A3161604 | AWG16/04C | 10.5 | 0.410 | 124 | 50 |
| | AWG 14 (41/30) | | | | |
| A3161404 | AWG14/04C | 11.6 | 0.455 | 159 | 71 |
| | AWG 12 (65/30) | | | | |
| A3161204 | AWG12/04C | 13.1 | 0.510 | 214 | 107 |
| | AWG 10 (105/30) | | | | |
| A3161004 | AWG10/04C | 16.5 | 0.650 | 321 | 161 |
| | AWG 8 (168/30) | | | | |
| A3160804 | AWG8/04C | 21.0 | 0.825 | 490 | 267 |

WITH ONE SHIELDED CONTROL PAIR

| | | | | | |
|-----------------|---------------------------|------|-------|------|-----|
| | AWG 16 (26/30) | | | | |
| A3171604 | AWG16/04C+ 1 TSP AWG18 | 12.1 | 0.477 | 161 | 72 |
| | AWG 14 (41/30) | | | | |
| A3171404 | AWG14/04C+ 1 TSP AWG18 | 12.8 | 0.505 | 196 | 92 |
| | AWG 12 (65/30) | | | | |
| A3171204 | AWG12/04C+ 1 TSP AWG18 | 15.0 | 0.590 | 263 | 128 |
| | AWG 10 (105/30) | | | | |
| A3171004 | AWG10/04C+ 1 TSP AWG18 | 18.1 | 0.716 | 380 | 191 |
| | AWG 8 (168/30) | | | | |
| A3170804 | AWG8/04C+ 1 TSP AWG18 | 22.5 | 0.890 | 568 | 285 |
| | AWG 6 (266/30) | | | | |
| A3170604 | AWG6/04C+ 1 TSP AWG18 | 25.5 | 1.003 | 786 | 417 |
| | AWG 4 (413/30) | | | | |
| A3170404 | AWG4/04C+ 1 TSP AWG16 | 29.5 | 1.162 | 1119 | 613 |
| | AWG 2 (665/30) | | | | |
| A3170204 | AWG2/04C+ 1 TSP AWG16 | 34.1 | 1.340 | 1543 | 983 |

**TSP = Twisted
Shielded Pair**

For standard three phase VFD applications, please refer to LUTZE DRIVEFLEX® cable series.

1-800-447-2371



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