

LUTZE SILFLEX® M (C) Motor TPE, Shielded

Flexible Motor Cable for Stationary Applications



Application

- Shielded motor supply cable to connect power to 3-phase motors and servo drives
- 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 requirements
- TC-ER for use with cable trays without conduit, which can reduce installation costs in industrial environments
- For Allen-Bradley® 2090 and other similar servo systems
- 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
- Crush impact resistant
- Gas/vapor tight sheath per UL 1277
- Very round cable with small diameter
- Specially formulated TPE jacket for superior oil resistance
- Resistant to many mineral and vegetable based cutting oils
- Non-wicking fillers
- Sunlight resistant
- Flame retardant
- Talc and silicone free

Technical Data

Voltage	600V 90C TC-ER 600V MTW 1000V 90C WTTC 1000V 90C Flexible Motor Supply 600V 105C AWM
Temperature range	-40°C - +105°C
Bending radius min	6 x cable OD
Conductor marking	Power: brown, black, blue Ground: green/yellow Control pair: black/white
Oil resistance	Oil Res II
Approvals	UL Flexible Motor Supply Cable UL TC-ER UL/AWM/CE UL MTW WTTC UL AWM Style 20328 Meets NEC 336, 392 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 c(UL) TC, CIC FT4 UL 1277 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%
- Extremely oil resistant TPE jacket
- Orange jacket similar to RAL 2003

Part No.	Description No. of conductors	OD - Ø ca. mm	OD - Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
A3161604	AWG16/04C (26/30)	10.5	0.410	124	50
A3161404	AWG14/04C (41/30)	11.6	0.455	159	71
A3161204	AWG12/04C (65/30)	13.1	0.510	214	107
A3161004	AWG10/04C (15/30)	16.5	0.650	321	161
A3160804	AWG8/04C (168/30)	21.0	0.825	490	267

WITH ONE SHIELDED CONTROL PAIR

A3171604	AWG16/04C (26/30)+ 1 TSP AWG18	12.1	0.477	161	72
A3171404	AWG14/04C (41/30)+ 1 TSP AWG18	12.8	0.505	196	92
A3171204	AWG12/04C (65/30)+ 1 TSP AWG18	15.0	0.590	263	128
A3171004	AWG10/04C (105/30)+ 1 TSP AWG18	18.1	0.716	380	191
A3170804	AWG8/04C (168/30)+ 1 TSP AWG18	22.5	0.890	568	285
A3170604	AWG6/04C (266/30)+ 1 TSP AWG18	25.5	1.003	786	417
A3170404	AWG4/04C (413/30)+ 1 TSP AWG16	29.5	1.162	1119	613
A3170204	AWG2/04C (655/30)+ 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.

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