

LUTZE MOTIONFLEX® M (C) TPE, Shielded

Flexing Motor Cable for Linear and Twisting Motion Applications



Application

- Shielded motor supply cable to connect power to 3-phase motors, VFDs and servo drives
- Suitable for motion applications with repetitive movement, flexing, and torsional stress
- Thermoset XLPE insulation offering superior overload and short-circuit temperature
- Compliant with NFPA 79 for wiring of industrial machinery
- TC-ER for use with cable trays without conduit, which can reduce installation costs in industrial environments
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp or wet conditions

Characteristics

- Highly flexible XLPE conductor design
- Reduced cable ODs
- High insulation resistance
- Low capacitance cable
- Specially formulated jacket for oil resistance and easy strip
- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Sunlight resistant
- Flame retardant
- Talc and silicone free

Technical Data

Voltage	600V 90C TC-ER 1000V 90C Flexible Motor Supply Cable 1000V 90C WTTC 600V 105C AWM
Temperature range	Moving -15°C - +80°C Fixed -40°C - +105°C
Bending radius min	Moving 12 x cable OD Fixed 6 x cable OD
Torsion angle max.	+/- 130° / 1m cable length
Conductor marking	Black with white numbers and one green/yellow ground
Oil resistance	Oil Res I, Oil Res II
Approvals	UL Type Flexible Motor Supply, TC-ER, WTTC Meets NEC 336, 392 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 AWM 21270 c(UL) TC, CIC FT4 UL 1277 RoHS, REACH

Construction

- AWG conductor
- Flexible fine wire stranded tinned copper conductors for improved electrical characteristics and reduced oxidation
- Thermoset XLPE insulation type XHHW-2, Wet/Dry
- Shielded with tinned copper braid with 85% optical coverage
- Oil resistant TPE jacket
- Black jacket similar to RAL 9005



Part No.	Description No. of conductors incl. ground	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
AWG 18 (41/34)					
A4061804	AWG18/04C	9.7	0.380	89	40
AWG 16 (65/34)					
A4061604	AWG16/04C	10.8	0.425	124	55
AWG 14 (104/34)					
A4061404	AWG14/04C	11.4	0.450	140	76
AWG 12 (168/34)					
A4061204	AWG12/04C	13.6	0.535	197	115
AWG 10 (259/34)					
A4061004	AWG10/04C	15.9	0.625	275	165
AWG 8 (336/34)					
A4060804	AWG8/04C	19.7	0.775	420	259

Small diameter VFD cable for flexing and twisting applications.
Meets NFPA 79, article 4.4.2.8.



Specifications are subject to change without prior notice