

# LUTZE MOTIONFLEX® TRAY-ER TPE, Unshielded

## Flexing Control Cable for Linear and Twisting Motion Applications



### Application

- Multi-conductor cable suitable for continuous motion applications with repetitive movement, linear flexing, and torsional stress
- Compatible with all major drag chain brands
- Compliant with NFPA 79 for wiring of industrial machinery
- TC-ER for use in 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 conductor design
- Specially formulated jacket for oil resistance and easy strip
- Cutting oil resistant - mineral & bio/vegetable based oils *specifically tested with plant based cutting oil*
- 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 WTTC 600V 105C AWM
Temperature range	Moving -5°C - +90°C Fixed -40°C - +105°C
Bending radius min	Moving 10 x cable OD Fixed 4 x cable OD
Torsion angle max.	+/- 180° / 1m cable length
Conductor marking	Black with white numbers and one green/yellow ground *2C no ground included
Oil resistance	Oil Res I, Oil Res II
Approvals	UL Type TC-ER *2C UL Type TC WTTC UL/AWM/CE AWM 21270 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
- Special low friction PVC/Nylon insulation
- Oil resistant TPE jacket
- Black jacket similar to RAL 9005

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
<b>AWG 18 (41/34)</b>					
A4221802	AWG18/02C*	6.8	0.270	38	11
A4221803	AWG18/03C	7.2	0.284	46	16
A4221804	AWG18/04C	7.7	0.304	56	21
A4221805	AWG18/05C	8.3	0.329	63	26
A4221807	AWG18/07C	9.5	0.377	90	37
A4221812	AWG18/12C	11.3	0.447	133	63
<b>AWG 16 (65/34)</b>					
A4221602	AWG16/02C*	7.7	0.305	47	16
A4221603	AWG16/03C	8.2	0.324	60	25
A4221604	AWG16/04C	8.8	0.349	74	33
A4221605	AWG16/05C	9.6	0.378	91	41
A4221607	AWG16/07C	11	0.435	125	58
A4221612	AWG16/12C	13.2	0.520	185	99
<b>AWG 14 (104/34)</b>					
A4221403	AWG14/03C	8.7	0.343	79	40
A4221404	AWG14/04C	9.4	0.370	99	53
A4221405	AWG14/05C	10.2	0.405	120	66
A4221407	AWG14/07C	11.9	0.470	170	92
A4221412	AWG14/12C	15.1	0.595	284	157
<b>AWG 12 (168/34)</b>					
A4221203	AWG12/03C	10.7	0.423	114	63
A4221204	AWG12/04C	11.6	0.460	166	84
A4221205	AWG12/05C	12.7	0.501	179	105
A4221207	AWG12/07C	15.7	0.620	270	147
<b>AWG 10 (259/34)</b>					
A4221004	AWG10/04C	14.5	0.573	225	131
A4221005	AWG10/05C	15.9	0.626	285	163