

LUTZE SILFLEX® Control Cable PVC, Unshielded

Flexible Control and Tray Cable for Stationary Applications



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 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
- PLTC-ER – power limited tray cable exposed run
- ITC-ER – instrumentation tray cable
- Dry, damp or wet locations

Characteristics

- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Sunlight resistant
- Flame retardant
- Direct burial (AWG 18 and larger)
- Talc and silicone free

Technical Data

Voltage	
AWG 20:	300V 90C PLTC-ER 300V 90C ITC-ER 600V MTW 1000V 105C AWM
AWG 18 and larger:	600V 90C TC-ER-JP 1000V 90C WTTC 600V MTW 1000V 105C AWM
Temperature range	-40°C - +105°C static
Bending radius min	4 x cable OD
Conductor marking	Black with white numbers and one green/yellow ground *no ground included
Oil resistance	Oil Res II
Approvals	UL/AWM/CE AWM Style 20886 (UL) Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 c(UL) TC and CIC FT4 UL 1277 RoHS, REACH, TSCA
AWG specific approvals	
AWG 20:	PLTC-ER and ITC-ER
AWG 18 to AWG 12:	TC-ER-JP and WTTC PLTC-ER and ITC-ER *2C no ER approvals
AWG 10 and larger:	TC-ER-JP and WTTC

Construction

- AWG conductor
- Class K flexible fine wire stranded bare copper conductors
- PVC/Nylon insulation
- Oil resistant PVC jacket
- Gray jacket similar to RAL 7001

Part No.	Description No. of conductors incl. ground	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
----------	--	------------------	------------------	-------------------	-------------------

AWG 20 (10/30)

A3082003	AWG20/03C	6.8	0.268	41	9
A3082004	AWG20/04C	7.3	0.287	49	13
A3082005	AWG20/05C	7.9	0.313	57	16
A3082007	AWG20/07C	8.5	0.335	70	22
A3082012	AWG20/12C	10.8	0.426	110	38
A3082018	AWG20/18C	12.5	0.492	152	56
A3082025	AWG20/25C	17.1	0.672	229	79

AWG 18 (19/30)

A3081802	AWG18/02C*	7.0	0.276	46	12
A3081803	AWG18/03C	7.5	0.296	54	18
A3081804	AWG18/04C	8.1	0.320	65	24
A3081805	AWG18/05C	8.8	0.346	82	30
A3081807	AWG18/07C	9.5	0.373	102	42
A3081809	AWG18/09C	10.8	0.425	128	54
A3081812	AWG18/12C	12.1	0.477	157	72
A3081818	AWG18/18C	14.9	0.587	240	108
A3081825	AWG18/25C	17.2	0.677	314	151
A3081834	AWG18/34C	18.9	0.744	404	205
A3081841	AWG18/41C	22.8	0.896	520	248
A3081850	AWG18/50C	23.1	0.910	630	302

AWG 16 (26/30)

A3081602	AWG16/02C*	7.7	0.305	53	16
A3081603	AWG16/03C	8.2	0.321	66	24
A3081604	AWG16/04C	8.7	0.347	77	32
A3081605	AWG16/05C	9.5	0.377	98	40
A3081607	AWG16/07C	10.2	0.406	122	57
A3081609	AWG16/09C	12.0	0.473	159	73
A3081612	AWG16/12C	13.4	0.527	196	98
A3081618	AWG16/18C	16.4	0.647	294	147
A3081625	AWG16/25C	19.0	0.748	391	204
A3081634	AWG16/34C	22.3	0.876	541	278
A3081641	AWG16/41C	25.0	0.983	670	335

AWG 14 (41/30)

A3081403	AWG14/03C	8.8	0.348	87	38
A3081404	AWG14/04C	9.6	0.378	108	51
A3081405	AWG14/05C	10.4	0.410	125	64
A3081407	AWG14/07C	11.3	0.445	164	89
A3081409	AWG14/09C	13.1	0.516	213	115
A3081412	AWG14/12C	15.5	0.610	283	154
A3081418	AWG14/18C	18.2	0.715	404	231
A3081425	AWG14/25C	20.9	0.825	537	321

Specifications are subject to change without prior notice

LUTZE SILFLEX® Control Cable PVC, Unshielded

Flexible Control and Tray Cable for Stationary Applications



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 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
- PLTC-ER – power limited tray cable exposed run
- ITC-ER – instrumentation tray cable
- Dry, damp or wet locations

Characteristics

- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Sunlight resistant
- Flame retardant
- Direct burial (AWG 18 and larger)
- Talc and silicone free

Technical Data

Voltage	
AWG 20:	300V 90C PLTC-ER 300V 90C ITC-ER 600V MTW 1000V 105C AWM
AWG 18 and larger:	600V 90C TC-ER-JP 1000V 90C WTTC 600V MTW 1000V 105C AWM
Temperature range	-40°C - +105°C static
Bending radius min	4 x cable OD
Conductor marking	Black with white numbers and one green/yellow ground *no ground included
Oil resistance	Oil Res II
Approvals	UL/AWM/CE AWM Style 20886 (UL) Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I & II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 c(UL) TC and CIC FT4 UL 1277 RoHS, REACH, TSCA
AWG specific approvals	
AWG 20:	PLTC-ER and ITC-ER
AWG 18 to AWG 12:	TC-ER-JP and WTTC PLTC-ER and ITC-ER *2C no ER approvals
AWG 10 and larger:	TC-ER-JP and WTTC

Construction

- AWG conductor
- Class K flexible fine wire stranded bare copper conductors
- PVC/Nylon insulation
- Oil resistant PVC jacket
- Gray jacket similar to RAL 7001

Part No.	Description No. of conductors incl. ground	OD / Ø ca. mm	OD / Ø inches	Weight Lbs/Mft	Copper Lbs/Mft
AWG 12 (65/30)					
A3081203	AWG12/03C	9.8	0.382	122	63
A3081204	AWG12/04C	11.1	0.437	150	84
A3081205	AWG12/05C	12.1	0.475	183	105
A3081207	AWG12/07C	14.1	0.556	255	147
AWG 10 (105/30)					
A3081004	AWG10/04C	14.6	0.573	239	130
A3081005	AWG10/05C	15.8	0.623	288	162
AWG 8 (168/30)					
A3080804	AWG8/04C	18.9	0.744	398	214
A3080805	AWG8/05C	22.4	0.882	452	268
AWG 6 (266/30)					
A3080604	AWG6/04C	20.8	0.820	535	339
AWG 4 (413/30)					
A3080404	AWG4/04C	27.2	1.070	927	514
AWG 2 (665/30)					
A3080204	AWG2/04C	31.1	1.225	1352	874

"Tray cable marked as TC-ER-JP (Joist Pull) has been evaluated by UL for pulling through structural members per the new NEC article 336.10(9)".



Specifications are subject to change without prior notice