

FR-XLPE/LSZH-TP

CONSTRUCTION AT A GLANCE

CONDUCTOR TYPE ①
14 – 10 AWG COPPER

INSULATION TYPE ②
FR-XLPE

SHIELD TYPE
N/A

JACKET TYPE ③
THERMOPLASTIC LSZH

APPLICATIONS

- Predominantly used in utility substations
- Can be installed indoors or outdoors, in cable trays, conduit, underground duct, or direct buried in wet or dry locations
- Conductor operating temperatures are not to exceed 90°C wet or dry
- Rated 600 Volts

CONSTRUCTION DETAILS

- **Conductors**
 - 14 AWG thru 10 AWG Annealed Class B Copper Unilay Compressed Stranded
- **Insulation**
 - Flame Retardant Cross-Linked Polyethylene (FR-XLPE)
 - Color Coded per preferred method in ICEA S-73-532 standard
- **Assembly**
 - Cabled with non-hygroscopic polyethylene fillers in order to give the cable a circular cross-section, when needed
 - Wrapped with a Mylar binder
- **Overall Jacket**
 - Heat, Moisture, and Sunlight Resistant Thermoplastic LSZH
- **Print**
 - SOUTHWIRE XXAWG XX/C FR-XLPE (XHHW-2) CDRS 90C LSZH JKT TYPE TC 600V SUN. RES. DIRECT BURIAL YEAR SEQUENTIAL FOOTAGE MARKS

SPECIFICATIONS

Southwire's Type TC Substation Control Cable meets or exceeds:

- All applicable ASTM Standards
- ANSI/ICEA S-73-532
- UL 44 Type XHHW-2 rated VW-1
- UL 1277
- UL 1581
- IEEE 1202
- ICEA T-29-520
- RoHS Compliant

OPTIONS

Strand:

- Stranding Classes – C, K
- Tin Coated Copper

Color Coding Methods:

- Color Coding per ICEA S-73-532
 - Method 1, Table E1
 - Method 1, Table E2
 - Method 4
- Custom, available upon request

Insulation:

- PE/PVC
- PE
- FR-XLPE
- THHN

Binder Tape:

- Flame Retardant

Shielded Constructions:

- CU LCT
- CU Helical Tape
- AL Helical Tape
- AL Longitudinal
- With drain wire

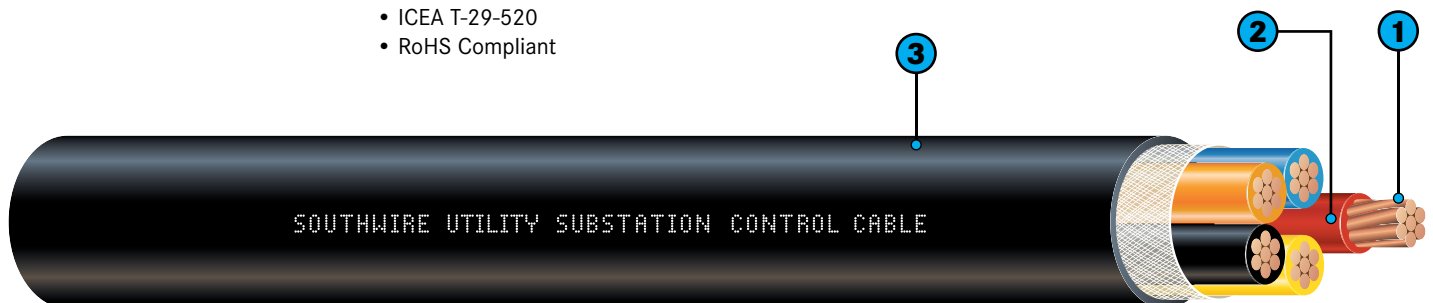
Jacket:

- PVC
- LSZH-TP
- LSZH-TS
- CPE-TP
- CPE-TS

Other:

- Rip cord
- 1000 Volt rated
- Custom print
- TC-ER

Additional constructions available upon request





Number of Conductors	Conductor Size (AWG)	Nominal Jacket Thickness (inches)	Nominal Overall Diameter		Approximate Weight	
			(inches)	(mm)	(lbs/1000 ft)	(kg/km)
Unshielded AWG 14 (7 strands)						
2	14	0.045	0.349	8.9	70	104
3	14	0.045	0.370	9.4	97	144
4	14	0.045	0.403	10.2	118	175
5	14	0.045	0.440	11.2	139	207
6	14	0.045	0.479	12.2	162	241
7	14	0.045	0.479	12.2	182	271
8	14	0.060	0.549	13.9	223	332
9	14	0.060	0.588	14.9	248	369
10	14	0.060	0.638	16.2	274	408
12	14	0.060	0.659	16.7	317	471
Unshielded AWG 12 (7 strands)						
2	12	0.045	0.384	9.8	94	141
3	12	0.045	0.408	10.4	128	190
4	12	0.045	0.445	11.3	163	243
5	12	0.045	0.487	12.4	190	283
6	12	0.060	0.562	14.3	241	359
7	12	0.060	0.562	14.3	271	403
8	12	0.060	0.607	15.4	306	455
9	12	0.060	0.651	16.5	341	508
10	12	0.060	0.709	18.0	378	562
12	12	0.060	0.732	18.6	440	655
Unshielded AWG 10 (7 strands)						
2	10	0.045	0.431	11.0	129	192
3	10	0.045	0.459	11.7	179	266
4	10	0.045	0.502	12.8	228	339
5	10	0.060	0.581	14.8	289	430
6	10	0.060	0.632	16.1	340	506
7	10	0.060	0.632	16.1	384	572
8	10	0.060	0.685	17.4	436	648
9	10	0.060	0.736	18.7	486	723
10	10	0.060	0.803	20.4	539	802
12	10	0.080	0.870	22.1	666	990

Dimensions and weights shown above are nominal and subject to industry tolerances.