

FR-XLPE/PVC

CONSTRUCTION AT A GLANCE

CONDUCTOR TYPE ①
14 – 10 AWG COPPER

INSULATION TYPE ②
FR-XLPE

SHIELD TYPE
N/A

JACKET TYPE ③
PVC

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)
 - XHHW
 - Color Coded per ICEA S-73-532, Method 1, Table E-2
- **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 Black Polyvinyl Chloride (PVC)
- **Print**
 - SOUTHWIRE XXAWG XX/C FR-XLPE (XHHW-2) CDRS 90C PVC JKT TYPE TC 600V SUN. RES. DIRECT BURIAL YEAR SEQUENTIAL FOOTAGE MARKS

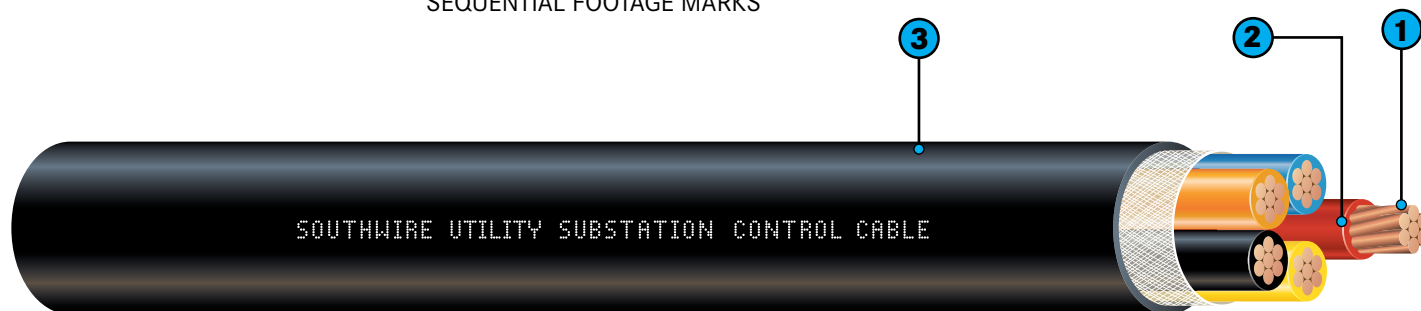
SPECIFICATIONS

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
- UL 1685
- IEEE 1202
- ICEA T-29-520
- RoHS Compliant

OPTIONS

- Stranding Classes – C, K
- Tin-Coated Copper Conductors
- Color Coding Methods per ICEA S-73-532
- Shielded Constructions - Longitudinal Corrugated CU Tape, Helical CU or AL Tape, or Longitudinal AL Tape with Mylar Bonding
- Rip Cord
- Ground Wire
- Jacket Materials – SOLONON® (LSZH), CPE
- UL Listed Construction
- Other 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	63	94
3	14	0.045	0.370	9.4	87	129
4	14	0.045	0.403	10.2	106	157
5	14	0.045	0.440	11.2	125	186
6	14	0.045	0.479	12.2	146	218
7	14	0.045	0.479	12.2	164	245
8	14	0.060	0.549	13.9	201	299
9	14	0.060	0.588	14.9	223	332
10	14	0.060	0.638	16.2	247	367
12	14	0.060	0.659	16.7	285	424
Unshielded AWG 12 (7 strands)						
2	12	0.045	0.384	9.8	85	127
3	12	0.045	0.408	10.4	115	172
4	12	0.045	0.445	11.3	147	219
5	12	0.045	0.487	12.4	171	255
6	12	0.060	0.562	14.3	217	323
7	12	0.060	0.562	14.3	244	363
8	12	0.060	0.607	15.4	275	410
9	12	0.060	0.651	16.5	307	457
10	12	0.060	0.709	18.0	340	506
12	12	0.060	0.732	18.6	396	589
Unshielded AWG 10 (7 strands)						
2	10	0.045	0.431	11.0	116	172
3	10	0.045	0.459	11.7	161	239
4	10	0.045	0.502	12.8	205	306
5	10	0.060	0.581	14.8	260	387
6	10	0.060	0.632	16.1	306	455
7	10	0.060	0.632	16.1	346	514
8	10	0.060	0.685	17.4	392	583
9	10	0.060	0.736	18.7	437	651
10	10	0.060	0.803	20.4	485	721
12	10	0.080	0.870	22.1	599	892

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

