

# Primary UD TR-XLPE / LLDPE, Concentric Neutral

5 kV – 46 kV

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## Features

Low tension stripping compounds.

RUS U-1 (15 kV & 25 kV).

True Triple extrusion system and closed handling raw materials system, to eliminate any contact with ambient, until extrusion of insulation and shields.

On request, Sealed conductor with strand filled compound passes the production water penetration tests per ICEA-T-31-610 at 15 psi for 60 minutes.

When requested, Strand Filled compound meets compatibility test requirements in accordance with ICEA-T-32-610.

On request, Dual sealed cable (Strand Filled on conductor + WSP on Neutral wires) meets the water penetration requirements in accordance with ICEA-T-34-664.

On request, can be UL Listed as MV90 for use in accordance with Article 328 of the NEC.

On request, two abrasion resistant ripcords placed longitudinally 180° apart for easy jacket removal.

## Application

Underground primary residential and commercial distribution circuits.

May be used in wet or dry locations, installed in underground ducts or direct burial.

## Standards

ICEA S-94-649: Standard for Concentric Neutral Rated Cables 5 – 46 kV.

AEIC CS8: Specifications for Extruded Dielectric, Shielded Power Cable, rated 5 – 46 kV.

## Specifications

Maximum operating voltage:

- 5 kV – 46 kV, 100 and 133% IL

Maximum conductor operation temperatures:

Wet and dry locations

- Normal: 105 °C
- Emergency: 140 °C
- Short Circuit: 250 °C

## Engineering Information

**1. Conductor:** Soft annealed uncoated copper Class B compressed or unilay compressed per ASTM B8 or hard drawn aluminum Class B compressed or unilay compressed stranding per ASTM B231.

On request: strand filled.

Sizes: 8 AWG – 1000 kcmil.

On request: larger sizes.

**2. Conductor Shield:** Semi conducting cross-linked polyethylene (XLPE).

On request: super-clean and super-smooth materials.

**3. Insulation:** Thermoset tree-retardant crosslinked polyethylene (TR-XLPE).

**4. Insulation Shield:** Semi conducting cross-linked polyethylene (XLPE).

**5. Concentric Neutral:** Soft annealed solid copper wires per ASTM B3, helically applied and uniformly spaced.

Full or 1/3 Neutral.

On request options: alternate neutral constructions, Water Swellable Powder (WSP), and ripcords.

**6. Jacket:** Extruded to fill (Encapsulated) Black sunlight resistant linear low density polyethylene (LLDPE), with three Red Stripes.

On request: semiconducting PE or Black HDPE.

Configuration Options:

On request, Triplex or Paralleled configurations.



ALUMINUM

Technical Data

### 5 kV TR-XLPE Insulated

Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	1/3 Neutral					Full Neutral				
			Number of Wires	Size	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight	Number of Wires	Size	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight
				AWG	mil	in	lb/kft		AWG	mil	in	lb/kft
<b>Copper 100% Insulation Level (90 mil)</b>												
2	7	0.50	6	14	50	0.81	469	16	14	50	0.81	589
1	19	0.54	7	14	50	0.84	547	13	12	50	0.88	730
1/0	19	0.58	9	14	50	0.88	653	16	12	50	0.92	870
2/0	19	0.63	11	14	50	0.93	779	13	10	50	1.00	1089
3/0	19	0.68	14	14	50	0.98	941	16	10	50	1.05	1309
4/0	19	0.73	18	14	50	1.03	1146	16	9	50	1.14	1613
250	37	0.79	13	12	50	1.12	1340	—	—	—	—	—
350	37	0.89	18	12	50	1.23	1785	—	—	—	—	—
500	37	1.02	17	10	50	1.42	2535	—	—	—	—	—
750	61	1.21	20	9	80	1.70	3731	—	—	—	—	—
1000	61	1.36	26	9	80	1.85	4807	—	—	—	—	—
<b>Aluminum 100% Insulation Level (90 mil)</b>												
2	1	0.48	6	14	50	0.78	311	10	14	50	0.78	360
2	7	0.50	6	14	50	0.81	325	10	14	50	0.81	374
1	19	0.54	6	14	50	0.84	355	13	14	50	0.84	439
1/0	1	0.54	6	14	50	0.85	370	16	14	50	0.85	491
1/0	19	0.58	6	14	50	0.88	389	16	14	50	0.88	510
2/0	19	0.62	7	14	50	0.93	444	13	12	50	0.96	629
3/0	19	0.67	9	14	50	0.98	519	16	12	50	1.01	738
4/0	19	0.73	11	14	50	1.03	606	13	10	50	1.11	921
250	37	0.79	13	14	50	1.09	686	16	10	50	1.17	1071
350	37	0.89	18	14	50	1.19	879	16	9	50	1.29	1356
500	37	1.02	16	12	50	1.38	1208	29	10	50	1.42	1823
750	61	1.22	15	10	80	1.69	1798	—	—	—	—	—
1000	61	1.37	16	9	80	1.86	2292	—	—	—	—	—

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
Ampacities: Refer to beginning of section.

Technical Data continued

## 8 kV TR-XLPE Insulated

Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	1/3 Neutral					Full Neutral				
			Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
<b>Copper 100% Insulation Level (115 mil)</b>												
2	7	0.55	6	14	50	0.86	496	16	14	50	0.86	616
1	19	0.59	7	14	50	0.90	576	13	12	50	0.93	760
1/0	19	0.63	9	14	50	0.94	683	16	12	50	0.97	901
2/0	19	0.68	11	14	50	0.98	810	13	10	50	1.06	1123
3/0	19	0.73	14	14	50	1.03	974	16	10	50	1.11	1344
4/0	19	0.78	18	14	50	1.09	1180	16	9	50	1.19	1651
250	37	0.84	13	12	50	1.18	1377	25	10	50	1.22	1923
350	37	0.94	18	12	50	1.28	1826	22	8	50	1.37	2628
500	37	1.07	17	10	50	1.47	2582	31	8	50	1.53	3617
750	61	1.26	20	9	80	1.75	3787	—	—	—	—	—
1000	61	1.41	26	9	80	1.90	4868	—	—	—	—	—
<b>Aluminum 100% Insulation Level (115 mil)</b>												
2	1	0.53	6	14	50	0.83	337	10	14	50	0.83	386
2	7	0.55	6	14	50	0.86	352	10	14	50	0.86	401
1	19	0.59	6	14	50	0.89	383	13	14	50	0.89	467
1/0	1	0.59	6	14	50	0.90	399	16	14	50	0.90	519
1/0	19	0.63	6	14	50	0.93	419	16	14	50	0.93	540
2/0	19	0.68	7	14	50	0.98	475	13	12	50	1.01	661
3/0	19	0.73	9	14	50	1.03	552	16	12	50	1.06	772
4/0	19	0.78	11	14	50	1.08	640	13	10	50	1.16	958
250	37	0.84	13	14	50	1.14	722	16	10	50	1.22	1110
350	37	0.94	18	14	50	1.24	918	16	9	50	1.34	1398
500	37	1.07	16	12	50	1.43	1253	29	10	50	1.47	1869
750	61	1.27	15	10	80	1.74	1853	—	—	—	—	—
1000	61	1.42	16	9	80	1.91	2353	—	—	—	—	—

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
Ampacities: Refer to beginning of section.

Technical Data continued

# 15 kV TR-XLPE Insulated

1/3 Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
2	7	0.68	6	14	50	0.98	568
1	19	0.71	7	14	50	1.02	651
1/0	19	0.75	9	14	50	1.06	761
2/0	19	0.80	11	14	50	1.10	892
3/0	19	0.85	14	14	50	1.15	1059
4/0	19	0.90	18	14	50	1.21	1270
250	37	0.96	21	14	50	1.26	1451
250	37	0.96	13	12	50	1.30	1474
350	37	1.06	29	14	50	1.39	1930
350	37	1.06	18	12	50	1.42	1955
500	37	1.19	26	12	50	1.55	2640
500	37	1.19	17	10	50	1.59	2702
750	61	1.38	25	10	80	1.85	3892
750	61	1.38	20	9	80	1.87	3928
1000	61	1.53	26	9	80	2.05	5069
<b>Aluminum 100% Insulation Level (175 mil)</b>							
2	1	0.65	6	14	50	0.95	407
2	7	0.67	6	14	50	0.98	424
1	19	0.71	6	14	50	1.02	457
1/0	1	0.72	6	14	50	1.02	473
1/0	19	0.75	6	14	50	1.06	496
2/0	19	0.80	7	14	50	1.10	555
3/0	19	0.85	9	14	50	1.15	636
4/0	19	0.90	11	14	50	1.21	729
250	37	0.96	13	14	50	1.26	815
350	37	1.06	18	14	50	1.39	1042
350	37	1.06	11	12	50	1.42	1066
500	37	1.19	25	14	50	1.52	1331
500	37	1.19	16	12	50	1.55	1368
750	61	1.40	24	12	80	1.82	1945
750	61	1.40	15	10	80	1.86	1992
1000	61	1.54	31	12	80	2.00	2446
1000	61	1.54	20	10	80	2.04	2516
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—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
2	7	0.68	16	14	50	0.98	689
1	19	0.71	13	12	50	1.05	837
1/0	19	0.75	25	14	50	1.06	954
1/0	19	0.75	16	12	50	1.09	982
2/0	19	0.80	32	14	50	1.10	1145
2/0	19	0.80	20	12	50	1.14	1166
2/0	19	0.80	13	10	50	1.18	1210
3/0	19	0.85	16	10	50	1.23	1435
4/0	19	0.90	32	12	50	1.24	1692
4/0	19	0.90	20	10	50	1.28	1722
4/0	19	0.90	16	9	50	1.31	1748
250	37	0.96	25	10	50	1.34	2022
350	37	1.06	22	8	50	1.52	2766
500	37	1.19	31	8	80	1.71	3808
—	—	—	—	—	—	—	—
<b>Aluminum 100% Insulation Level (175 mil)</b>							
2	1	0.65	10	14	50	0.95	455
2	7	0.67	10	14	50	0.98	472
1	19	0.71	13	14	50	1.02	541
1/0	1	0.72	16	14	50	1.02	594
1/0	19	0.75	16	14	50	1.06	617
2/0	19	0.80	20	14	50	1.10	712
2/0	19	0.80	13	12	50	1.13	744
3/0	19	0.85	25	14	50	1.15	829
3/0	19	0.85	16	12	50	1.18	859
4/0	19	0.90	32	14	50	1.21	982
4/0	19	0.90	20	12	50	1.24	1006
4/0	19	0.90	13	10	50	1.28	1052
250	37	0.96	25	12	50	1.30	1164
250	37	0.96	16	10	50	1.34	1208
350	37	1.06	32	12	50	1.42	1468
350	37	1.06	20	10	50	1.46	1503
350	37	1.06	16	9	50	1.49	1532
500	37	1.19	29	10	50	1.59	1988
750	61	1.40	28	8	80	1.91	2956
1000	61	1.54	37	8	80	2.09	3770

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request. Ampacities: Refer to beginning of section.

Technical Data continued

### 15 kV TR-XLPE Insulated

1/3 Neutral								Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
				AWG								AWG			
<b>Copper 133% Insulation Level (220 mil)</b>															
2	7	0.77	6	14	50	1.07	628	2	7	0.77	16	14	50	1.07	749
1	19	0.81	7	14	50	1.11	713	1	19	0.81	13	12	50	1.14	902
1/0	19	0.85	9	14	50	1.15	826	1/0	19	0.85	25	14	50	1.15	1019
2/0	19	0.89	11	14	50	1.19	959	1/0	19	0.85	16	12	50	1.18	1049
3/0	19	0.94	14	14	50	1.24	1129	2/0	19	0.89	32	14	50	1.19	1212
4/0	19	1.00	18	14	50	1.30	1343	2/0	19	0.89	20	12	50	1.23	1235
250	37	1.05	21	14	50	1.38	1552	2/0	19	0.89	13	10	50	1.27	1282
250	37	1.05	13	12	50	1.41	1577	3/0	19	0.94	16	10	50	1.32	1510
300	37	1.13	25	14	50	1.45	1794	4/0	19	1.00	32	12	50	1.33	1767
300	37	1.13	16	12	50	1.49	1831	4/0	19	1.00	20	10	50	1.38	1800
350	37	1.16	29	14	50	1.48	2015	4/0	19	1.00	16	9	50	1.40	1827
350	37	1.16	18	12	50	1.52	2042	250	37	1.05	25	10	50	1.46	2129
500	37	1.28	26	12	80	1.71	2799	300	37	1.13	18	8	50	1.58	2489
500	37	1.28	17	10	80	1.75	2866	350	37	1.16	22	8	50	1.61	2858
750	61	1.47	25	10	80	1.94	4003	500	37	1.28	31	8	80	1.80	3910
750	61	1.47	20	9	80	1.96	4040	—	—	—	—	—	—	—	—
1000	61	1.62	26	9	80	2.14	5192	—	—	—	—	—	—	—	—
<b>Aluminum 133% Insulation Level (220 mil)</b>															
2	1	0.74	6	14	50	1.04	465	2	1	0.74	10	14	50	1.04	513
2	7	0.76	6	14	50	1.07	483	2	7	0.76	10	14	50	1.07	531
1	19	0.80	6	14	50	1.11	519	1	19	0.80	13	14	50	1.11	603
1/0	1	0.81	6	14	50	1.11	535	1/0	1	0.81	16	14	50	1.11	655
1/0	19	0.84	6	14	50	1.15	560	1/0	19	0.84	16	14	50	1.15	681
2/0	19	0.89	7	14	50	1.19	622	2/0	19	0.89	20	14	50	1.19	779
3/0	19	0.94	9	14	50	1.24	705	2/0	19	0.89	13	12	50	1.22	812
4/0	19	0.99	11	14	50	1.30	801	3/0	19	0.94	25	14	50	1.24	898
250	37	1.05	13	14	50	1.38	914	3/0	19	0.94	16	12	50	1.27	930
350	37	1.15	18	14	50	1.48	1125	4/0	19	0.99	32	14	50	1.30	1055
500	37	1.28	25	14	50	1.61	1421	4/0	19	0.99	20	12	50	1.33	1080
500	37	1.28	16	12	80	1.70	1528	4/0	19	0.99	13	10	50	1.37	1129
750	61	1.49	24	12	80	1.91	2053	250	37	1.05	25	12	50	1.41	1266
750	61	1.49	15	10	80	1.95	2102	250	37	1.05	16	10	50	1.45	1313
1000	61	1.64	31	12	80	2.09	2565	350	37	1.15	32	12	50	1.51	1553
1000	61	1.64	20	10	80	2.13	2637	350	37	1.15	20	10	50	1.55	1591
1000	61	1.64	16	9	80	2.16	2676	350	37	1.15	16	9	50	1.58	1620
—	—	—	—	—	—	—	—	500	37	1.28	29	10	80	1.75	2152
—	—	—	—	—	—	—	—	750	61	1.49	28	8	80	2.01	3069
—	—	—	—	—	—	—	—	1000	61	1.64	37	8	80	2.18	3894

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
 Ampacities: Refer to beginning of section.

Technical Data continued

## 25 kV TR-XLPE Insulated

1/3 Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
1	19	0.89	7	14	50	1.19	773
1/0	19	0.93	9	14	50	1.23	888
2/0	19	0.97	11	14	50	1.28	1023
3/0	19	1.02	14	14	50	1.35	1220
4/0	19	1.08	18	14	50	1.40	1438
250	37	1.13	21	14	50	1.46	1626
250	37	1.13	13	12	50	1.49	1653
350	37	1.24	29	14	50	1.56	2094
350	37	1.24	18	12	50	1.60	2123
500	37	1.37	17	10	80	1.83	2959
750	61	1.56	25	10	80	2.05	4155
750	61	1.56	20	9	80	2.08	4194
1000	61	1.70	26	9	80	2.23	5306
1000	61	1.70	21	8	80	2.25	5365
<b>Aluminum 100% Insulation Level (260 mil)</b>							
1	19	0.88	6	14	50	1.19	578
1/0	1	0.89	6	14	50	1.19	594
1/0	19	0.92	6	14	50	1.23	621
2/0	19	0.97	7	14	50	1.27	685
3/0	19	1.02	9	14	50	1.34	794
4/0	19	1.07	11	14	50	1.40	894
250	37	1.13	13	14	50	1.46	987
350	37	1.23	18	14	50	1.56	1204
500	37	1.36	25	14	80	1.75	1575
500	37	1.36	16	12	80	1.78	1618
750	61	1.57	24	12	80	2.02	2200
750	61	1.57	15	10	80	2.06	2252
1000	61	1.72	31	12	80	2.17	2674
1000	61	1.72	20	10	80	2.21	2748
1000	61	1.72	16	9	80	2.24	2789
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—	—	—	—	—	—	—	—

Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size AWG	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
1	19	0.89	13	12	50	1.23	963
1/0	19	0.93	25	14	50	1.23	1081
1/0	19	0.93	16	12	50	1.27	1113
2/0	19	0.97	13	10	50	1.35	1350
3/0	19	1.02	16	10	50	1.42	1605
4/0	19	1.08	32	12	50	1.44	1864
4/0	19	1.08	20	10	50	1.48	1900
4/0	19	1.08	16	9	50	1.51	1928
250	37	1.13	25	10	50	1.54	2207
350	37	1.24	22	8	80	1.75	3012
500	37	1.37	31	8	80	1.88	4006
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
<b>Aluminum 100% Insulation Level (260 mil)</b>							
1	19	0.88	13	14	50	1.19	662
1/0	1	0.89	16	14	50	1.19	715
1/0	19	0.92	16	14	50	1.23	742
2/0	19	0.97	20	14	50	1.27	842
2/0	19	0.97	13	12	50	1.30	877
3/0	19	1.02	25	14	50	1.34	987
3/0	19	1.02	16	12	50	1.38	1021
4/0	19	1.07	32	14	50	1.40	1147
4/0	19	1.07	20	12	50	1.43	1175
4/0	19	1.07	13	10	50	1.48	1227
250	37	1.13	25	12	50	1.49	1341
250	37	1.13	16	10	50	1.53	1390
350	37	1.23	32	12	50	1.59	1633
350	37	1.23	20	10	80	1.70	1740
350	37	1.23	16	9	80	1.72	1772
500	37	1.36	29	10	80	1.83	2244
750	61	1.57	28	8	80	2.12	3223
1000	61	1.72	37	8	80	2.27	4008

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request. Ampacities: Refer to beginning of section.

Technical Data continued

## 25 kV TR-XLPE Insulated

1/3 Neutral								Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	Size AWG	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
				AWG								AWG			
<b>Copper 133% Insulation Level (320 mil)</b>															
1/0	19	1.05	9	14	50	1.38	1013	1/0	19	1.05	16	12	50	1.41	1241
2/0	19	1.09	11	14	50	1.42	1152	2/0	19	1.09	13	10	50	1.50	1486
3/0	19	1.14	14	14	50	1.47	1330	3/0	19	1.14	16	10	50	1.55	1721
4/0	19	1.20	18	14	50	1.53	1552	4/0	19	1.20	16	9	80	1.69	2116
250	37	1.26	13	12	50	1.62	1775	250	37	1.26	25	10	80	1.72	2398
350	37	1.36	18	12	80	1.78	2321	350	37	1.36	22	8	80	1.88	3153
500	37	1.49	17	10	80	1.95	3106	500	37	1.49	31	8	80	2.01	4157
750	61	1.68	20	9	80	2.20	4361	—	—	—	—	—	—	—	—
1000	61	1.83	26	9	80	2.35	5484	—	—	—	—	—	—	—	—
<b>Aluminum 133% Insulation Level (320 mil)</b>															
1/0	1	1.01	6	14	50	1.31	691	1/0	1	1.01	16	14	50	1.31	811
1/0	19	1.05	6	14	50	1.37	744	1/0	19	1.05	16	14	50	1.37	865
2/0	19	1.09	7	14	50	1.42	812	2/0	19	1.09	20	14	50	1.42	969
3/0	19	1.14	9	14	50	1.47	903	2/0	19	1.09	13	12	50	1.45	1007
4/0	19	1.20	11	14	50	1.52	1007	3/0	19	1.14	25	14	50	1.47	1096
250	37	1.25	13	14	50	1.58	1105	3/0	19	1.14	16	12	50	1.50	1132
350	37	1.35	18	14	80	1.74	1398	4/0	19	1.20	32	14	50	1.52	1260
500	37	1.48	25	14	80	1.87	1715	4/0	19	1.20	20	12	50	1.55	1290
500	37	1.48	16	12	80	1.91	1760	4/0	19	1.20	13	10	50	1.60	1346
750	61	1.69	24	12	80	2.14	2361	250	37	1.25	25	12	50	1.61	1461
750	61	1.69	15	10	80	2.18	2417	250	37	1.25	16	10	80	1.72	1581
1000	61	1.84	31	12	80	2.29	2846	350	37	1.35	32	12	80	1.78	1831
1000	61	1.84	20	10	80	2.33	2924	350	37	1.35	20	10	80	1.82	1876
1000	61	1.84	16	9	80	2.36	2966	350	37	1.35	16	9	80	1.84	1910
—	—	—	—	—	—	—	—	500	37	1.48	29	10	80	1.95	2389
—	—	—	—	—	—	—	—	750	61	1.69	28	8	80	2.24	3391
—	—	—	—	—	—	—	—	1000	61	1.84	37	8	80	2.39	4188

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
 Ampacities: Refer to beginning of section.

Technical Data continued

### 35 kV TR-XLPE Insulated

1/3 Neutral								Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
				AWG								AWG			
<b>Copper 100% Insulation Level (345 mil)</b>															
1/0	19	1.10	9	14	50	1.43	1059	1/0	19	1.10	25	14	50	1.43	1252
2/0	19	1.15	11	14	50	1.47	1200	1/0	19	1.10	16	12	50	1.46	1287
3/0	19	1.20	14	14	50	1.52	1379	2/0	19	1.15	32	14	50	1.47	1453
4/0	19	1.25	18	14	50	1.58	1603	2/0	19	1.15	20	12	50	1.51	1482
250	37	1.31	21	14	80	1.70	1863	2/0	19	1.15	13	10	50	1.55	1536
250	37	1.31	13	12	80	1.73	1895	3/0	19	1.20	16	10	50	1.60	1773
350	37	1.41	29	14	80	1.80	2346	4/0	19	1.25	32	12	50	1.61	2033
350	37	1.41	18	12	80	1.83	2380	4/0	19	1.25	20	10	80	1.72	2140
500	37	1.54	17	10	80	2.04	3219	4/0	19	1.25	16	9	80	1.74	2172
750	61	1.73	25	10	80	2.22	4391	250	37	1.31	25	10	80	1.77	2455
750	61	1.73	20	9	80	2.25	4433	350	37	1.41	22	8	80	1.93	3215
1000	61	1.88	26	9	80	2.40	5561	500	37	1.54	31	8	80	2.09	4273
<b>Aluminum 100% Insulation Level (345 mil)</b>															
1/0	1	1.06	6	14	50	1.38	757	1/0	1	1.06	16	14	50	1.38	878
1/0	19	1.10	6	14	50	1.42	789	1/0	19	1.10	16	14	50	1.42	910
2/0	19	1.14	7	14	50	1.47	859	2/0	19	1.14	20	14	50	1.47	1016
3/0	19	1.19	9	14	50	1.52	951	2/0	19	1.14	13	12	50	1.50	1055
4/0	19	1.25	11	14	50	1.57	1057	3/0	19	1.19	25	14	50	1.52	1144
250	37	1.30	13	14	80	1.69	1223	3/0	19	1.19	16	12	50	1.55	1181
350	37	1.40	18	14	80	1.79	1454	4/0	19	1.25	32	14	50	1.57	1310
500	37	1.53	25	14	80	1.95	1822	4/0	19	1.25	20	12	50	1.61	1341
500	37	1.53	16	12	80	1.99	1868	4/0	19	1.25	13	10	80	1.71	1465
750	61	1.74	24	12	80	2.19	2431	250	37	1.30	25	12	80	1.73	1582
750	61	1.74	15	10	80	2.24	2488	250	37	1.30	16	10	80	1.77	1637
1000	61	1.89	31	12	80	2.34	2921	350	37	1.40	32	12	80	1.83	1889
1000	61	1.89	20	10	80	2.38	3000	350	37	1.40	20	10	80	1.87	1935
1000	61	1.89	16	9	80	2.41	3043	350	37	1.40	16	9	80	1.89	1970
—	—	—	—	—	—	—	—	500	37	1.53	29	10	80	2.03	2500
—	—	—	—	—	—	—	—	750	61	1.74	28	8	80	2.29	3464
—	—	—	—	—	—	—	—	1000	61	1.89	37	8	80	2.44	4265

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request. Ampacities: Refer to beginning of section.



Technical Data continued

### 35 kV TR-XLPE Insulated

1/3 Neutral								Full Neutral							
Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	Size AWG or kcmil	Number of Strands	Nominal OD Over Insulation in	Number of Wires	Size	Jacket Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft
				AWG								AWG			
<b>Copper 133% Insulation Level (420 mil)</b>															
1/0	19	1.25	9	14	50	1.58	1206	1/0	19	1.25	16	12	50	1.61	1438
2/0	19	1.30	11	14	50	1.63	1351	2/0	19	1.30	13	10	80	1.76	1763
3/0	19	1.35	14	14	80	1.74	1602	3/0	19	1.35	16	10	80	1.81	2006
4/0	19	1.40	18	14	80	1.79	1834	4/0	19	1.40	16	9	80	1.89	2349
250	37	1.46	13	12	80	1.88	2071	250	37	1.46	25	10	80	1.93	2635
350	37	1.56	18	12	80	2.02	2614	350	37	1.56	22	8	80	2.11	3461
500	37	1.69	17	10	80	2.19	3425	500	37	1.69	31	8	80	2.24	4484
750	61	1.88	20	9	80	2.40	4660	—	—	—	—	—	—	—	—
1000	61	2.03	26	9	80	2.55	5802	—	—	—	—	—	—	—	—
<b>Aluminum 133% Insulation Level (420 mil)</b>															
1/0	19	1.25	6	14	50	1.57	934	1/0	19	1.25	16	14	50	1.57	1054
2/0	19	1.29	7	14	50	1.62	1008	2/0	19	1.29	13	12	80	1.71	1275
3/0	19	1.34	9	14	80	1.73	1173	3/0	19	1.34	16	12	80	1.76	1408
4/0	19	1.40	11	14	80	1.79	1287	4/0	19	1.40	13	10	80	1.86	1638
250	37	1.45	13	14	80	1.84	1394	250	37	1.45	16	10	80	1.92	1815
350	37	1.56	18	14	80	1.98	1681	350	37	1.56	16	9	80	2.08	2208
500	37	1.68	25	14	80	2.11	2018	—	—	—	—	—	—	—	—
500	37	1.68	16	12	80	2.14	2068	—	—	—	—	—	—	—	—
750	61	1.89	24	12	80	2.34	2650	—	—	—	—	—	—	—	—
750	61	1.89	15	10	80	2.39	2710	—	—	—	—	—	—	—	—
1000	61	2.04	16	9	80	2.56	3282	—	—	—	—	—	—	—	—

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
 Ampacities: Refer to beginning of section.

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