



**SECTION 2**

**XLPE POWER CABLE AND URD DISTRIBUTION CABLE**

**5 kV to 35 kV**

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***United Wire & Cable***

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# POWER CABLE, NON-SHIELDED, 5000 VOLT CROSS-LINKED POLYETHYLENE INSULATION (XLPE) TYPE RW90, SINGLE CONDUCTOR, UNJACKETED 90°C CONDUCTOR TEMPERATURE



## DESCRIPTION

This specification covers single conductor non-shielded power cables, Type RW90, insulated with cross-linked polyethylene (XLPE). All power cables manufactured under this specification are suitable for 2001 to 5000 volt operation. These cables comply in all respects with CSA and/or ICEA Standards.

## APPLICATION:

Where CEC, Part 1 requirements apply, this cable is suitable for use in wet or dry locations at continuous conductor temperature of 90°C, 130°C emergency overload, and at 250°C short circuit conditions. All sizes may be installed in conduit or duct for properly supported aerial installations. This cable is also suitable for all applications in which ICEA allows use of non-shielded cable at voltages of 2001 volts and above as covered by ICEA S-66-524.

## CONSTRUCTION DATA AND SPECIFICATIONS:

**Conductors** - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors. Sizes 8AWG through 4AWG can be furnished in Class C, 19 strand.

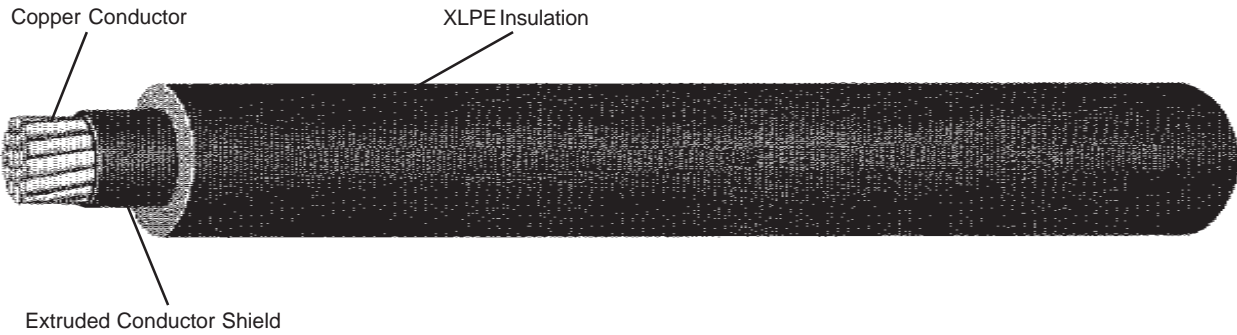
**Conductor Shield** - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of CSA C22.2 No.38-M1986.

**Insulation** - The insulation is CSA rated RW90 cross-linked polyethylene (XLPE), extruded concentrically over the conductor. Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CSA C22.2 No. 38 is also available upon request.

**Tests** - The finished cable will meet all test requirements as specified by CSA C22.2 No.38



# 5 kV SINGLE CONDUCTOR XLPE POWER CABLE, NON-SHIELDED, TYPE RW90



90°C CONDUCTOR TEMPERATURE, 100% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Approximate O.D. in Inches	Ampacity* 30°C Ambient	Approximate Net Weight LBS/MFT
	Size AWG or MCM	No. of Strands				
06-10-						

SINGLE CONDUCTOR 5kV NON-SHIELDED

Product Code Prefix 06-10-xxxx

0101	8	7	110	0.41	45	96
0102	6	7	110	0.44	65	131
0103	4	7	110	0.51	85	186
0104	2	7	110	0.57	120	266
0105	1	19	110	0.61	140	331
0106	1/0	19	110	0.65	155	407
0107	2/0	19	110	0.70	185	497
0108	3/0	19	110	0.75	210	612
0109	4/0	19	110	0.80	235	792
0110	250	37	120	0.87	265	893
0111	300	37	120	0.93	295	1076
0112	350	37	120	0.98	325	1228
0113	400	37	120	1.02	345	1458
0114	500	37	120	1.10	395	1688
0115	600	61	130	1.21	455	2073
0116	750	61	130	1.31	500	2525
0117	1000	61	130	1.46	585	3330

Note: \*Based on three single conductor cables in isolated conduit in air per CEC, Part 1, Table 2.

The above data is approximate and subject to normal manufacturing tolerances.



# POWER CABLE, NON-SHIELDED, 5000 VOLT, JACKETED CROSS-LINKED POLYETHYLENE INSULATION (XLPE) TYPE RW90, WET OR DRY, SINGLE AND THREE CONDUCTOR 90°C CONDUCTOR TEMPERATURE



## DESCRIPTION:

This specification covers single and multi-conductor non-shielded power cables, Type RW90, insulated with cross-linked polyethylene (XLPE) and overall jacket of polyvinyl chloride (PVC). All power cables manufactured under this specification are suitable for 5000 volt operation. These cables comply in all respects with ICEA, and CSA C22.2 No.38-M1986 Standards.

## APPLICATION:

Cross-linked polyethylene (XLPE) insulated ozone resistant cables are recommended for use as primary power and distribution circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems and as power circuits in generating plants. This cable may be used in wet or dry locations, installed in conduit, duct, or aerially at continuous conductor temperature of 90°C, 130°C emergency overload, and at 250°C short circuit conditions. These cables are suitable for direct burial. They are also suitable for all applications in which ICEA allows use of non-shielded cable at voltages of 2001 volts and above as covered by ICEA S-66-524, Paragraph 7.5

## CONSTRUCTION DATA AND SPECIFICATIONS:

**Conductors** - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

**Conductor Shield** - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of CSA.

**Insulation** - The insulation is cross-linked polyethylene (XLPE), extruded concentrically over the conductor to the wall thickness, as specified by CSA C22.2 No.38-M1986, and ICEA S-66-524. Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CSA C22.2 No. 38 is also available upon request.

**Conductor Coding** - Phase identification is provided by a suitable marking on each insulated conductor of multi-conductor cable.

**Bonding Conductor** - When specified, one stranded uncoated bare-copper bonding conductor in one of the outer interstices (3-conductor) or one in each of two opposite interstices (4-conductor) can be supplied. Special bonding conductor requirements are available upon request, such as 50% of phase conductor or more than the normal one ground conductor.

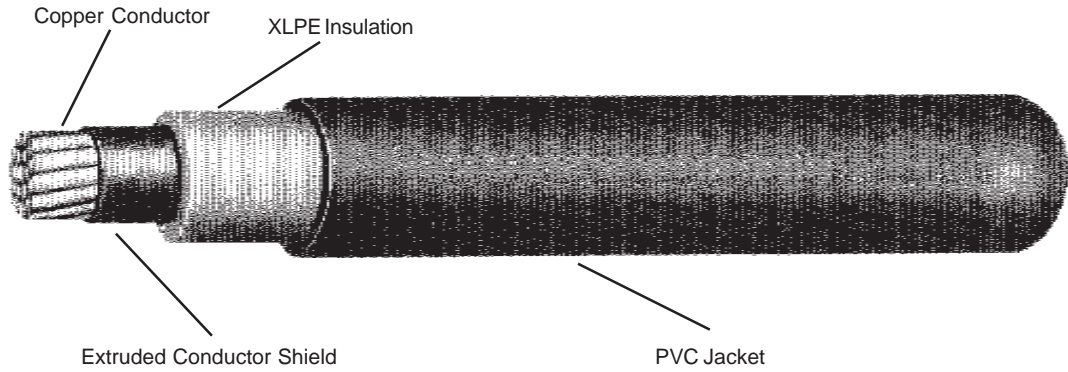
**Assembly** - The assembly of multi-conductor cables is done by cabling together the required number of insulated, non-shielded conductors and ground wire if specified, with a suitable left hand lay. Suitable fillers will be used in the interstices when required to make the cable round. A mylar tape is applied over the entire assembly.

**Jacket** - A sunlight and ozone resistant jacket of polyvinyl chloride (PVC) is extruded over the single and multi-conductor assembly. The jacket is applied to the dimensions as specified by CSA C22.2 No.38-M1986 and meets the requirements of ICEA S-66-524. Polyethylene (PE), (-40°C) PVC and chlorinated polyethylene (CPE) jackets are available upon request.

**Tests** - The finished cable will meet all test requirements as specified by ICEA S-66-524, and CSA C22.2 No.38-1986.



# 5 kV SINGLE CONDUCTOR XLPE POWER CABLE, NON-SHIELDED, JACKETED TYPE RW90



90°C CONDUCTOR TEMPERATURE WET OR DRY



Product Code	Conductor		Insulation in Mils	Jacket in Mils	Approximate O.D. in Inches	Ampacity* 30°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands					
06-10-							

SINGLE CONDUCTOR 5kV NON-SHIELDED JACKETED Product Code Prefix 06-10-xxxx

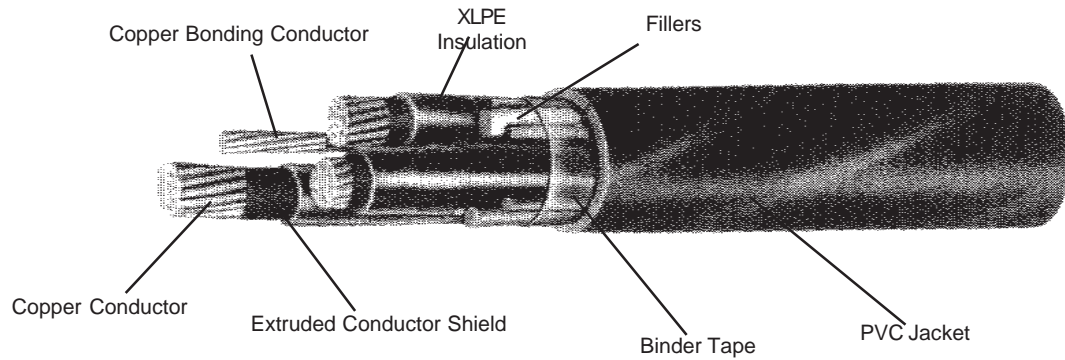
0201	8	7	125	80	0.62	45	187
0202	6	7	125	80	0.65	65	230
0203	4	7	125	80	0.70	85	293
0204	2	7	125	80	0.76	120	391
0205	1	19	125	80	0.80	140	464
0206	1/0	19	125	80	0.84	155	546
0207	2/0	19	125	80	0.89	185	643
0208	3/0	19	125	95	0.97	210	798
0209	4/0	19	125	95	1.03	235	954
0210	250	37	140	110	1.15	265	1148
0211	300	37	140	110	1.20	295	1344
0212	350	37	140	110	1.25	325	1497
0213	400	37	140	110	1.29	345	1706
0214	500	37	140	110	1.38	395	1991
0215	600	61	155	125	1.55	455	2485
0216	750	61	155	125	1.64	500	2926
0217	1000	61	155	125	1.79	585	3757

**Note:** \*Based on three single conductor cables in isolated conduit in air per CEC, Part 1, Table 2.

The above data is approximate and subject to normal manufacturing tolerances.



# 5 kV THREE CONDUCTOR XLPE POWER CABLE, NON-SHIELDED, TYPE RW90



90°C CONDUCTOR TEMPERATURE WET OR DRY



Product Code	Conductor		Insulation in Mils	Overall Jacket in Mils	Size AWG* Copper Ground Wire	Approximate O.D. in Inches	Ampacity** 30°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands						
06-10-								

THREE CONDUCTOR 5KV NON-SHIELDED

Product Code Prefix 06-10-xxxx

0301	8	7	90	80	10	1.07	45	522
0302	6	7	90	80	8	1.15	65	654
0303	4	7	90	80	8	1.26	85	851
0304	2	7	90	80	6	1.39	120	1161
0305	1	19	90	80	6	1.47	140	1373
0306	1/0	19	90	80	6	1.56	155	1623
0307	2/0	19	90	80	6	1.66	185	1945
0308	3/0	19	90	110	4	1.83	210	2393
0309	4/0	19	90	110	4	1.95	235	2851
0310	250	37	90	110	4	2.10	265	3320
0311	300	37	90	110	4	2.26	295	3944
0312	350	37	90	110	3	2.33	325	4485
0313	400	37	90	110	3	2.45	345	5024
0314	500	37	90	110	2	2.61	395	6107
0315	600	61	90	140	2	2.98	455	7286
0316	750	61	90	140	2	3.13	500	8924
0317	1000	61	90	140	1	3.40	585	11722

**Note:** \*One bonding conductor sized in accordance with CSAC 22.2 No.38-M1986. Other bonding conductor combinations are available.

\*\* Based on one three conductor cable isolated in air per CEC, Part 1, Table 2. For other installations refer to the CEC, Part 1.

The above data is approximate and subject to normal manufacturing tolerances.







# POWER CABLE, SHIELDED, 5000 TO 35000 VOLTS CROSS-LINKED POLYETHYLENE INSULATION (XLPE) SINGLE AND THREE CONDUCTOR, JACKETED 90°C CONDUCTOR TEMPERATURE



## DESCRIPTION:

This specification covers single and three conductor shielded power cables insulated with cross-linked polyethylene (XLPE) and overall jacket of polyvinyl chloride (PVC). All power cables manufactured under this specification are suitable for 5000 to 35000 volts operation, at 100% and 133% insulation levels. These cables comply with CSA and/or ICEA Standards.

## APPLICATION:

Cross-linked polyethylene (XLPE) insulated ozone resistant cables are recommended for use as primary power and distribution circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems and as power circuits in generating plants. This cable may be used in wet or dry locations, installed in conduit, duct, or aerially at continuous conductor temperature of 90°C, 130°C emergency overload, and at 250°C short circuit conditions. This cable is also suitable for direct burial use.

## CONSTRUCTION DATA AND SPECIFICATIONS:

**Conductors** - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

**Conductor Shield** - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of CAN/CSA C68.3-M92 and ICEA S-66-524.

**Insulation** - The insulation is cross-linked polyethylene (XLPE), extruded concentrically over the conductor to the wall thickness, as specified by CAN/CSA C68.3-M92 and ICEA S-66-524 (NEMA WC-7). Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CAN/CSA C68.3-M92 is also available upon request.

**Insulation Shielding** - Insulation shielding consists of a semi-conducting extruded compound or semi-conducting tape and an uncoated copper metallic tape or a serving of uncoated copper wires meeting the requirements of CAN/CSA C68.3-M92 and ICEA S-66-524 (NEMA WC-7) Standards. Specially designed shielding systems are available upon request.

**Conductor Coding** - Phase identification is provided by a suitable marking on each insulated conductor of multi-conductor cable.

**Bonding Conductor** - When specified, one stranded uncoated bare-copper ground conductor in one of the outer interstices (3-conductor) or one in each of two opposite interstices (4-conductor) will be supplied. Special bonding conductor requirements are available upon request, such as 50% of phase conductor or more than the normal one ground conductor.

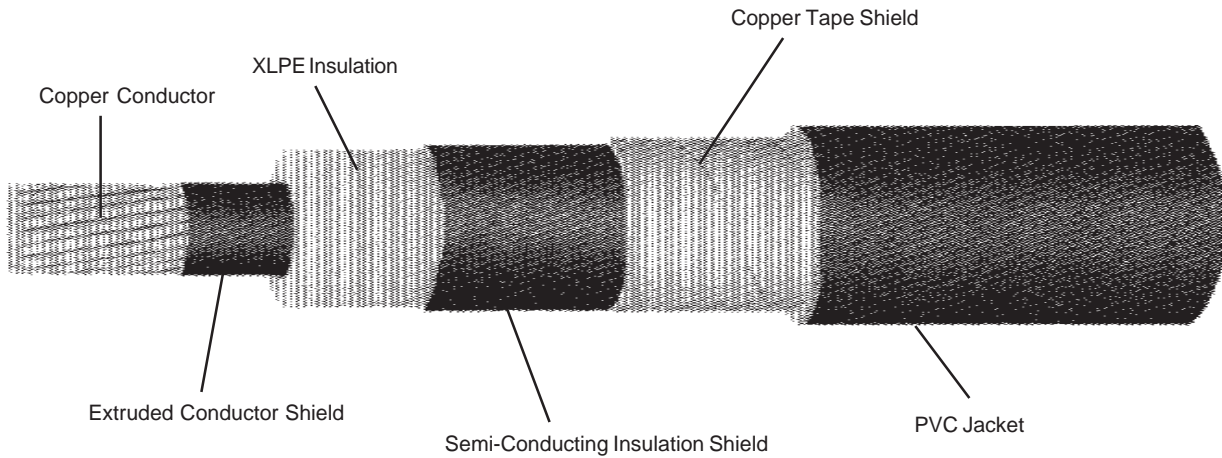
**Assembly** - The assembly of multi-conductor cables is done by cabling together the required number of insulated, shielded conductors and bonding conductor if specified, with a suitable left hand lay in accordance with CAN/CSA C68.3-M92 and ICEA-NEMA Standards. Suitable fillers will be used in the interstices when required to make the cable round. A mylar tape is applied over the entire assembly.

**Jacket** - A sunlight and ozone resistant jacket of polyvinyl chloride (PVC) is extruded over the shielded single conductor or multi-conductor assembly. The jacket is applied to the dimensions as specified by CAN/CSA C68.3-M92 and meets the requirements of ICEA S-66-524 (NEMA WC-7). Polyethylene (PE), chlorinated polyethylene (CPE), flame retardant polyvinyl chloride, (-40°C) PVC, or FT4 jackets are available upon request.

**Tests** - The finished cable will meet all test requirements as specified by CAN/CSA C68.3-M92 and ICEA S-66-524 (NEMA WC-7).



# 5 kV SINGLE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Jacket in Mils	Approximate O.D. in Inches	Ampacity** 30°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands					
06-12-							

SINGLE CONDUCTOR 5KV, SHIELDED

Product Code Prefix 06-12-xxxx

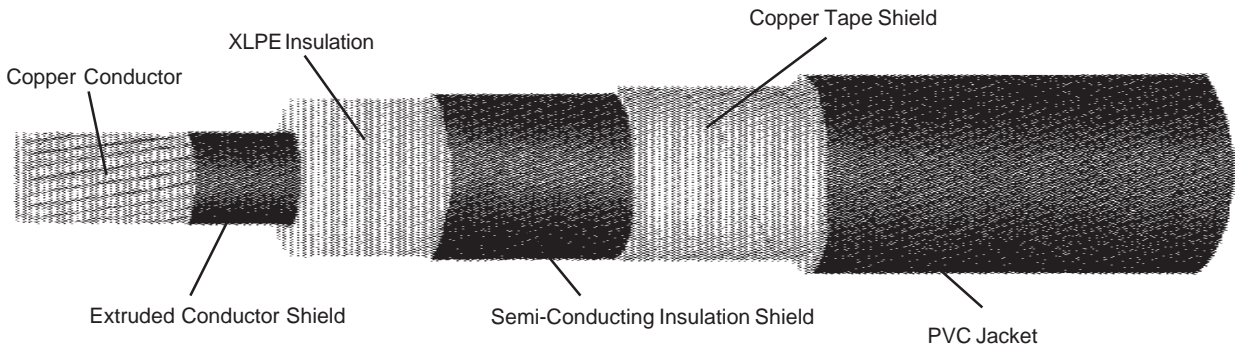
0401	8	7	90	60	0.60	55	142
0402	6	7	90	60	0.63	75	190
0403	4	7	90	60	0.70	85	255
0404	2	7	90	60	0.76	120	310
0405	1	19	90	60	0.80	140	392
0406	1/0	19	90	60	0.84	155	487
0407	2/0	19	90	60	0.92	185	614
0408	3/0	19	90	80	0.98	210	735
0409	4/0	19	90	80	1.04	235	882
0410	250	37	90	80	1.09	265	1015
0411	300	37	90	80	1.15	295	1185
0412	350	37	90	80	1.20	325	1355
0413	400	37	90	80	1.25	345	1545
0414	500	37	90	80	1.34	395	1850
0415	600	61	90	80	1.42	455	2235
0416	750	61	90	80	1.52	500	2755
0417	1000	61	90	80	1.67	585	3520

Note: \*Based on three single conductor cables in isolated conduit in air per CEC, Part 1, Table 2.

The above data is approximate and subject to normal manufacturing tolerances.



# 15 kV SINGLE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Jacket in Mils	Approximate O.D. in Inches	Ampacity* 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands					
06-12-							

SINGLE CONDUCTOR 15kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

0501	2	7	175	80	0.96	195	510
0502	1	19	175	80	1.01	225	575
0503	1/0	19	175	80	1.05	259	660
0504	2/0	19	175	80	1.10	298	775
0505	3/0	19	175	80	1.15	343	895
0506	4/0	19	175	80	1.21	397	1080
0507	250	37	175	80	1.26	440	1210
0508	300	37	175	80	1.32	492	1395
0509	350	37	175	80	1.37	543	1575
0510	400	37	175	80	1.42	588	1673
0511	500	37	175	80	1.51	678	2095
0512	600	61	175	80	1.59	755	2375
0513	750	61	175	80	1.69	872	2950
0514	1000	61	175	110	1.92	1040	3845

SINGLE CONDUCTOR 15kV SHIELDED, 133% IL

Product Code Prefix 06-12-xxxx

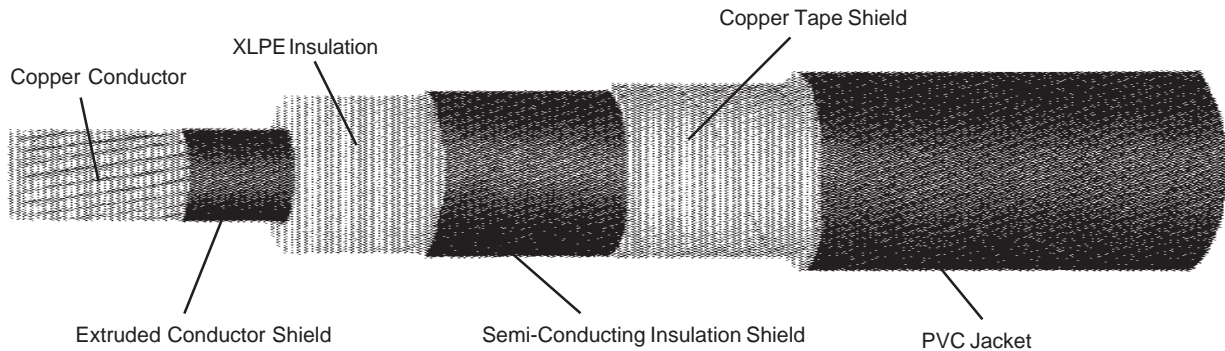
0521	2	7	220	80	1.05	195	565
0522	1	19	220	80	1.10	225	625
0523	1/0	19	220	80	1.14	259	725
0524	2/0	19	220	80	1.19	298	825
0525	3/0	19	220	80	1.24	343	950
0526	4/0	19	220	80	1.30	397	1150
0527	250	37	220	80	1.35	440	1275
0528	300	37	220	80	1.41	492	1470
0529	350	37	220	80	1.46	543	1665
0530	400	37	220	80	1.51	588	1746
0531	500	37	220	80	1.60	678	2180
0532	600	61	220	80	1.68	755	2522
0533	750	61	220	110	1.84	872	3175
0534	1000	61	220	110	2.01	1040	4075

Note: \*Based on three single conductor cables in free air per ICEA P46-426.

The above data is approximate and subject to normal manufacturing tolerances.



# 25/28 kV SINGLE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY



Product Code	Conductor		Insulation in Mils	Jacket in Mils	Approximate O.D. in Inches	Ampacity* 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands					
06-12-							

SINGLE CONDUCTOR 25kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

0601	1	19	260	80	1.22	225	766
0602	1/0	19	260	80	1.26	259	878
0603	2/0	19	260	80	1.31	298	994
0604	3/0	19	260	80	1.38	343	1135
0605	4/0	19	260	80	1.44	397	1312
0606	250	37	260	80	1.48	440	1472
0607	300	37	260	80	1.50	492	1632
0608	350	37	260	80	1.55	543	1838
0609	400	37	260	80	1.60	588	2061
0610	500	37	260	110	1.75	678	2391
0611	600	61	260	110	1.83	755	2715
0612	750	61	260	110	1.94	872	3317
0613	1000	61	260	110	2.10	1040	4170

SINGLE CONDUCTOR 28kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

0621	1	19	280	80	1.26	225	776
0622	1/0	19	280	80	1.30	259	888
0623	2/0	19	280	80	1.35	298	1004
0624	3/0	19	280	80	1.42	343	1145
0625	4/0	19	280	80	1.48	397	1324
0626	250	37	280	80	1.52	440	1484
0627	300	37	280	80	1.54	492	1644
0628	350	37	280	80	1.59	543	1853
0629	400	37	280	80	1.64	588	2076
0630	500	37	280	110	1.79	678	2406
0631	600	61	280	110	1.87	755	2735
0632	750	61	280	110	1.98	872	3337
0633	1000	61	280	110	2.14	1040	4190

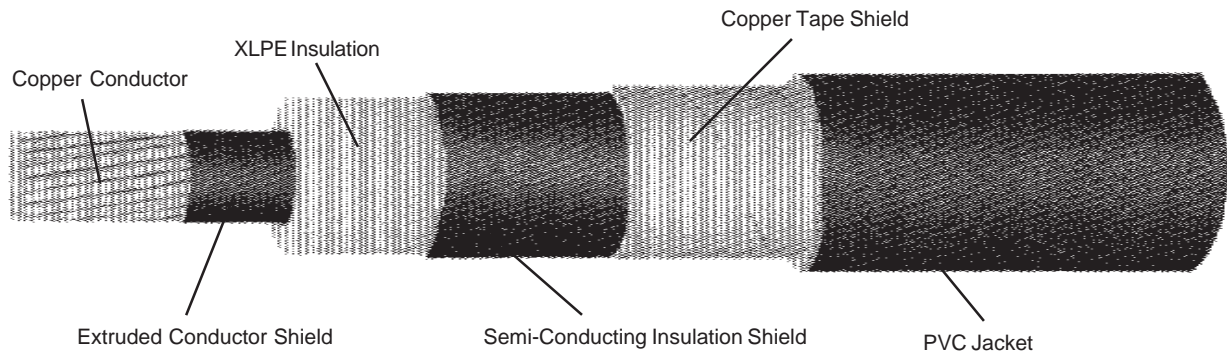
Note: \*Based on three single conductor cables in free air per ICEA P46-426.

The above data is approximate and subject to normal manufacturing tolerances.



**United Wire & Cable**

# 28/35 kV SINGLE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY



Product Code	Conductor		Insulation in Mils	Jacket in Mils	Approximate O.D. in Inches	Ampacity* 40°C Ambient	Approximate Net Weight LBS/MFT
	Size AWG or MCM	No. of Strands					

SINGLE CONDUCTOR 28kV SHIELDED, 133% IL  
SINGLE CONDUCTOR 35kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

0701	1/0	19	345	80	1.40	259	1072
0702	2/0	19	345	80	1.45	298	1205
0703	3/0	19	345	80	1.51	343	1322
0704	4/0	19	345	80	1.55	397	1502
0705	250	37	345	80	1.60	440	1639
0706	300	37	345	80	1.66	492	1817
0707	350	37	345	80	1.71	543	2022
0708	400	37	345	110	1.82	588	2207
0709	500	37	345	110	1.91	678	2624
0710	600	61	345	110	2.00	755	3031
0711	750	61	345	110	2.11	872	3536
0712	1000	61	345	110	2.26	1040	4409

SINGLE CONDUCTOR 35kV SHIELDED, 133% IL

Product Code Prefix 06-12-xxxx

0721	1/0	19	420	80	1.40	259	1201
0722	2/0	19	420	80	1.45	298	1450
0723	3/0	19	420	80	1.51	343	1610
0724	4/0	19	420	80	1.55	397	1795
0725	250	37	420	80	1.60	440	2066
0726	300	37	420	80	1.66	492	2288
0727	350	37	420	80	1.71	543	2502
0728	400	37	420	110	1.82	588	2602
0729	500	37	420	110	1.91	678	3094
0730	600	61	420	110	2.00	755	3573
0731	750	61	420	110	2.11	872	4060
0732	1000	61	420	110	2.26	1040	4996

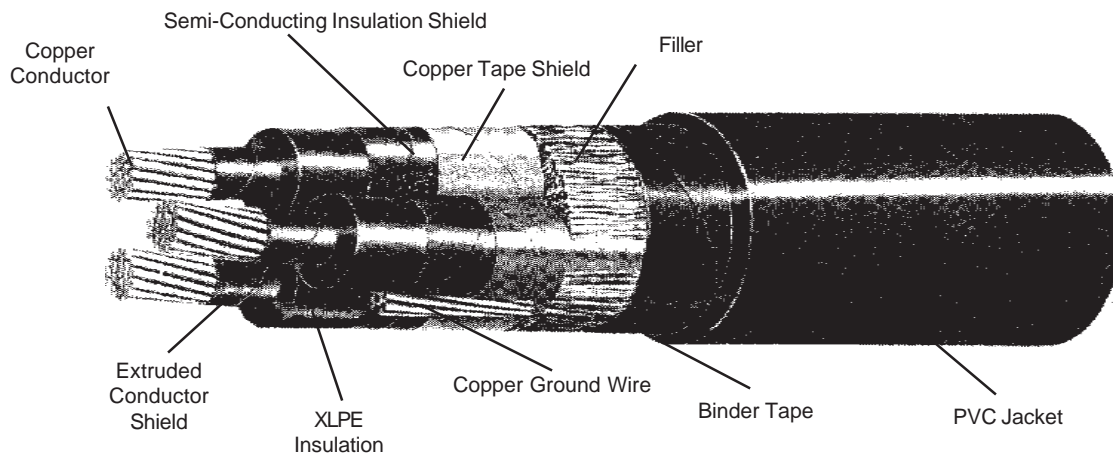
Note: \*Based on three single conductor cables in free air per ICEA P46-426.

The above data is approximate and subject to normal manufacturing tolerances.





# 5 KV THREE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Overall Jacket in Mils	Size Awg* Copper Bonding Conductor	Approximate O.D. in Inches	Ampacity** 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands						
06-12-								

THREE CONDUCTOR 5KV SHIELDED

Product Code Prefix 06-12-xxxx

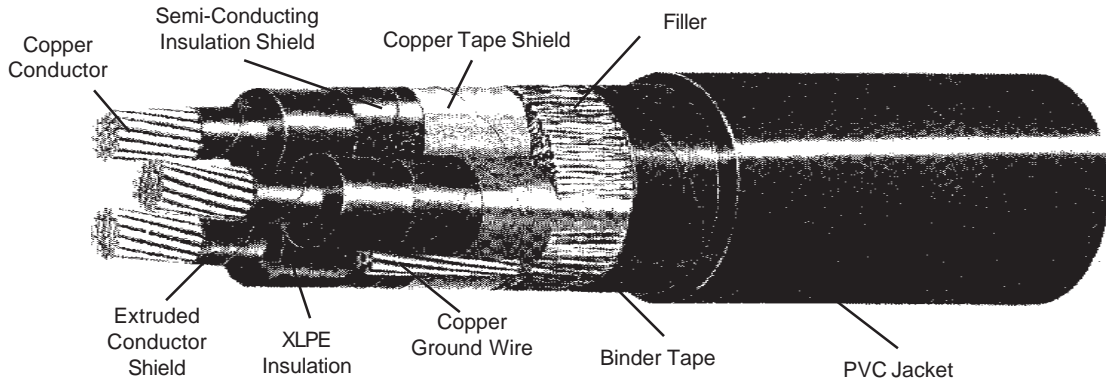
0801	8	7	90	80	10	1.11	59	606
0802	6	7	90	80	8	1.19	79	751
0803	4	7	90	80	8	1.30	105	953
0804	2	7	90	80	6	1.43	140	1286
0805	1	19	90	80	6	1.51	160	1508
0806	1/0	19	90	80	6	1.60	185	1768
0807	2/0	19	90	80	6	1.70	215	2098
0808	3/0	19	90	110	4	1.87	250	2556
0809	4/0	19	90	110	4	1.99	285	3026
0810	250	37	90	110	4	2.09	320	3469
0811	300	37	90	110	4	2.17	355	4099
0812	350	37	90	110	3	2.32	395	4695
0813	400	37	90	110	3	2.49	435	5244
0814	500	37	90	110	3	2.61	485	6348
0815	600	61	90	140	2	2.90	550	7546
0816	750	61	90	140	2	3.12	615	9205
0817	1000	61	90	140	1	3.56	705	12037

**Note:** \*One bonding conductor sized in accordance with CAN/CSA C68.3-M92. Other bonding conductor combinations are available.  
 \*\*Based on one three conductor cable isolated in free air per ICEA P46-426

The above data is approximate and subject to normal manufacturing tolerances.



# 15 kV THREE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Overall Jacket in Mils	Size AWG* Copper Bonding Conductor	Approximate O.D. in Inches	Ampacity** 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands						
06-12-								

THREE CONDUCTOR 15kV SHIELDED, 100%IL

Product Code Prefix 06-12-xxxx

0901	2	7	175	110	6	1.90	165	1614
0902	1	19	175	110	6	1.98	185	1880
0903	1/0	19	175	110	6	2.07	215	2167
0904	2/0	19	175	110	6	2.17	245	2540
0905	3/0	19	175	110	4	2.28	285	3037
0906	4/0	19	175	110	4	2.40	325	3559
0907	250	37	175	110	4	2.50	360	4036
0908	300	37	175	110	4	2.62	400	4637
0909	350	37	175	110	3	2.73	435	5214
0910	400	37	175	110	3	2.94	475	5784
0911	500	37	175	110	3	3.08	535	6923
0912	600	61	175	140	2	3.30	600	8216
0913	750	61	175	140	2	3.53	670	9886
0914	1000	61	175	140	1	3.77	770	12530

THREE CONDUCTOR 15kV SHIELDED, 133%IL

Product Code Prefix 06-12-xxxx

0921	2	7	220	110	6	2.10	165	1840
0922	1	19	220	110	6	2.16	185	2106
0923	1/0	19	220	110	6	2.25	215	2403
0924	2/0	19	220	110	6	2.35	245	2779
0925	3/0	19	220	110	4	2.46	285	3288
0926	4/0	19	220	110	4	2.59	325	3779
0927	250	37	220	110	4	2.69	360	4287
0928	300	37	220	110	4	2.88	400	4901
0929	350	37	220	140	3	2.97	435	5481
0930	400	37	220	140	3	3.12	475	6063
0931	500	37	220	140	3	3.26	535	7211
0932	600	61	220	140	2	3.48	600	8622
0933	750	61	220	140	2	3.71	670	10233
0934	1000	61	220	140	1	3.95	770	12929

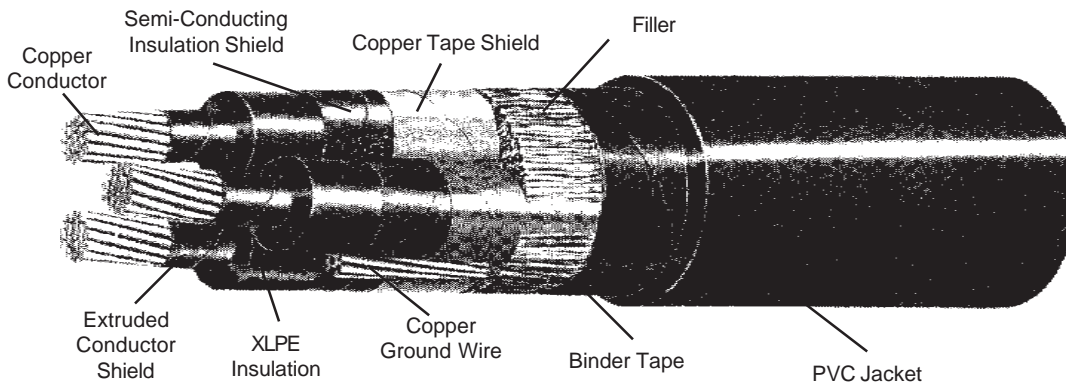
Note: \*One bonding conductor sized in accordance with CAN/CSA C68.3-M92. Other bonding conductor combinations are available.  
 \*\*Based on one three conductor cable isolated in free air per ICEA P46-426.

The above data is approximate and subject to normal manufacturing tolerances.



**United Wire & Cable**

# 25/28 kV THREE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Overall Jacket in Mils	Size AWG* Copper Bonding Conductor	Approximate O.D. in Inches	Ampacity** 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands						
06-12-								

THREE CONDUCTOR 25kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

1001	1	19	260	140	6	2.32	185	2445
1002	1/0	19	260	140	6	2.41	215	2762
1003	2/0	19	260	140	6	2.51	245	3181
1004	3/0	19	260	140	4	2.62	285	3737
1005	4/0	19	260	140	4	2.75	325	4160
1006	250	37	260	140	4	2.85	360	4756
1007	300	37	260	140	4	3.04	400	5288
1008	350	37	260	140	3	3.13	435	5893
1009	400	37	260	140	3	3.28	475	6827
1010	500	37	260	140	3	3.42	535	7709
1011	600	61	260	140	2	3.64	600	9109
1012	750	61	260	140	2	3.87	670	10581
1013	1000	61	260	140	1	4.11	770	13173

THREE CONDUCTOR 28kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

1021	1	19	280	140	6	2.40	185	2615
1022	1/0	19	280	140	6	2.49	215	2942
1023	2/0	19	280	140	6	2.59	245	3382
1024	3/0	19	280	140	4	2.70	285	3962
1025	4/0	19	280	140	4	2.83	325	4351
1026	250	37	280	140	4	2.93	360	4990
1027	300	37	280	140	4	3.12	400	5482
1028	350	37	280	140	3	3.21	435	6099
1029	400	37	280	140	3	3.36	475	7208
1030	500	37	280	140	3	3.50	535	7957
1031	600	61	280	140	2	3.72	600	9352
1032	750	61	280	140	2	3.95	670	10754
1033	1000	61	280	140	1	4.19	770	13295

Note: \*One bonding conductor sized in accordance with CAN/CSA C68.3-M92. Other bonding conductor combinations are available.

The above data is approximate and subject to normal manufacturing tolerances.

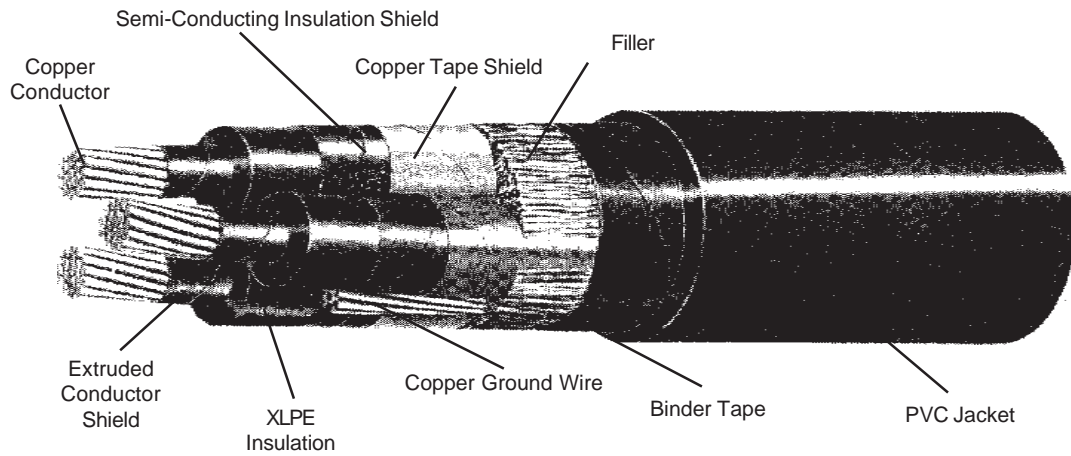
\*\*Based on one three conductor cable isolated in free air per ICEA P46-246.



**United Wire & Cable**



# 28/35 kV THREE CONDUCTOR XLPE POWER CABLE, SHIELDED, JACKETED



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Overall Jacket in Mils	Size Awg* Copper Bonding Conductor	Approximate O.D. in Inches	Ampacity** 40°C Ambient	Approximate Net Weight LBS/KFT
	Size AWG or MCM	No. of Strands						
06-12-								

THREE CONDUCTOR 28kV SHIELDED, 133% IL  
THREE CONDUCTOR 35kV SHIELDED, 100% IL

Product Code Prefix 06-12-xxxx

1101	1/0	19	345	140	6	2.75	215	3553
1102	2/0	19	345	140	6	2.85	245	4058
1103	3/0	19	345	140	4	2.96	285	4576
1104	4/0	19	345	140	4	3.09	325	4934
1105	250	37	345	140	4	3.19	360	5512
1106	300	37	345	140	4	3.38	400	6057
1107	350	37	345	140	3	3.47	435	6658
1108	400	37	345	140	3	3.62	475	7663
1109	500	37	345	140	3	3.76	535	8679
1110	600	61	345	140	2	3.98	600	10363
1111	750	61	345	140	2	4.21	670	11395
1112	1000	61	345	140	1	4.45	770	13988

**Note:** \*One bonding conductor sized in accordance with CAN/CSA C68.3-M92. Other bonding conductor combinations are available.

\*\*Based on one three conductor cable isolated in free air per ICEA P46-426.

The above data is approximate and subject to normal manufacturing tolerances.





# UNDERGROUND DISTRIBUTION POWER CABLE (URD) CROSS-LINKED POLYETHYLENE INSULATION (XLPE) 5000 TO 35000 VOLTS



## DESCRIPTION:

This specification covers primary underground distribution power cable consisting of an inner conductor insulated with cross-linked polyethylene (XLPE), a layer of semi-conducting non-metallic material and an outer conductor of helically applied copper wires. All cables produced under this specification are suitable for 5000 to 15000 volts operation. These cables comply in all respects with CSA and/or ICEA Standards.

## APPLICATION:

The cables are intended for use in underground distribution systems. The cables may be used in wet or dry locations, installed in underground conduits or ducts, exposed to weather, or ozone at continuous conductor temperature of 90°C, 130°C emergency overload, and 250°C short circuit conditions. They are also suitable for direct burial use.

## CONSTRUCTION DATA AND SPECIFICATIONS:

**Conductors** - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

**Conductor Shield** - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of and ICEA S-66-524, Section 2.

**Insulation** - The insulation is cross-linked polyethylene (XLPE), extruded concentrically over the conductor to the wall thickness as specified by CAN/CSA C68.3-M92 and ICEA S-66-524 (NEMA WC-7). Tree-

retardant cross-linked polyethylene (TR-XLPE) is available upon request. Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CAN/CSA C68.3-M92 is also available upon request.

**Insulation Shield and Protective Covering** - Directly over the insulation is extruded a layer of semi-conducting polyethylene (PE) to function as an electrostatic shield and a protective jacket per CAN/CSA C68.3-M92 and ICEA S-66-524, Section 4-1, Table 7-2 (NEMA WC-7).

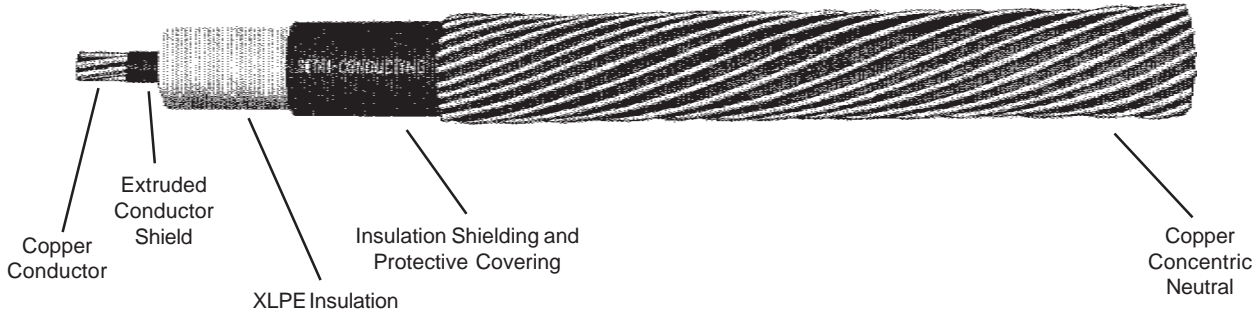
**Concentric Conductor** - Applied spirally over the semi-conducting layer will be a concentric neutral conductor consisting of annealed uncoated copper wires meeting ASTM B-3 and ASTM B-5. The wires are approximately evenly spaced and available as *full neutral* equal to the circular mil area of the inner conductor or *1/3rd neutral* equal to one-third the circular mil area of the inner conductor. The size and number of the neutral wires are in accordance to ICEA S-66-524, Table 7-3 and the lay is not less than 6 nor more than 10 times the diameter over the concentric wire layer.

**Overall Jacket** - Upon request, a protective sunlight and ozone resistant jacket of polyvinyl chloride (PVC) is extruded over the concentric conductor. The jacket is applied to meet the requirements of CAN/CSA C68.3-M92, ICEA S-66-524 (NEMA WC-7). Polyethylene (PE) and chlorinated polyethylene (CPE) jackets are available upon request.

**Tests** - The finished cable will meet all test requirements as specified by CAN/CSA C68.3-M92 and ICEA S-66-524 (NEMA WC-7).



# 5 kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% or 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient		Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands						Direct Burial	in Buried Duct		
06-14-											

## COPPER CONDUCTOR, 5kV

Product Code Prefix 06-14-xxxx

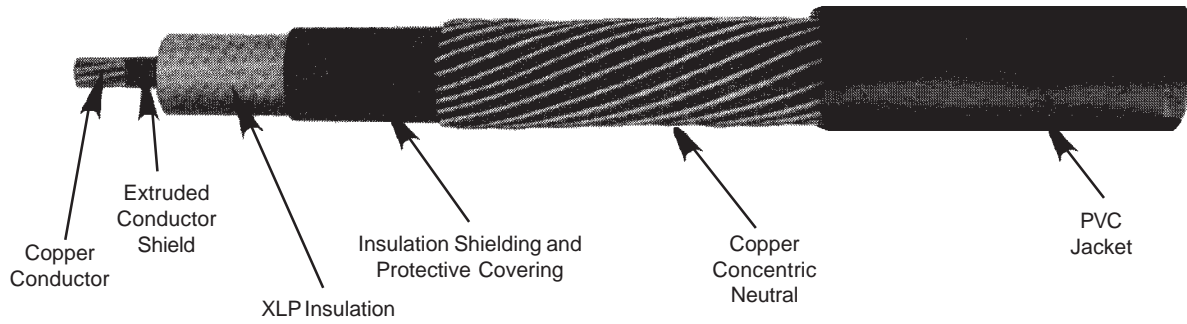
1201	4	7	90	30	10 x 14	6 x 14	0.63	169	111	332	281
1202	2	7	90	30	16 x 14	6 x 14	0.69	219	144	503	376
1203	1	19	90	30	13 x 12	7 x 14	0.77	249	165	632	459
1204	1/0	19	90	30	16 x 12	9 x 14	0.81	284	188	787	579
1205	2/0	19	90	30	13 x 10	11 x 14	0.89	324	217	907	644
1206	3/0	19	90	30	16 x 10	14 x 14	0.94	368	247	1183	858
1207	4/0	19	90	30	20 x 10	18 x 14	1.00	425	288	1474	1058
1208	250	37	90	30	24 x 10	21 x 14	1.04	470	315	1729	1242
1209	350	37	90	30	22 x 8	18 x 12	1.20	540	361	2390	1683
1210	500	37	90	30	19 x 6	17 x 10	1.42	650	435	3339	2334

Note: \*Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



# 5 kV UNDERGROUND DISTRIBUTION POWER CABLE XLPE, PVC JACKET



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% or 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	PVC Jacket in Mils	Concentric Neutral Full No. x Size AWG	Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient		Approximate Net Weight Full Neutral LBS/MFT	Approximate Net Weight 1/3 Neutral LBS/MFT
	Size AWG or MCM	No. of Strands							Direct Burial	in Buried Duct		
06-14-												

COPPER CONDUCTOR, 5kV

Product Code Prefix 06-14-xxxx

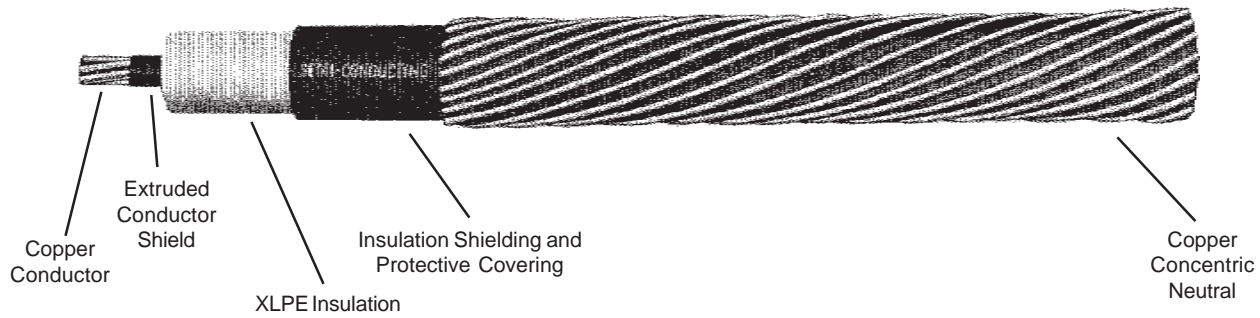
1301	4	7	90	30	50	10 x 14	6 x 14	0.73	169	111	440	389
1302	2	7	90	30	50	16 x 14	6 x 14	0.79	219	144	620	493
1303	1	19	90	30	50	13 x 12	7 x 14	0.87	249	165	790	617
1304	1/0	19	90	30	50	16 x 12	9 x 14	0.91	284	188	950	742
1305	2/0	19	90	30	50	13 x 10	11 x 14	0.99	324	217	1170	907
1306	3/0	19	90	30	50	16 x 10	14 x 14	1.04	368	247	1420	1095
1307	4/0	19	90	30	50	20 x 10	18 x 14	1.10	425	288	1649	1233
1308	250	37	90	30	50	24 x 10	21 x 14	1.14	470	315	1815	1328
1309	350	37	90	30	50	22 x 8	18 x 12	1.30	540	361	2486	1779
1310	500	37	90	30	50	19 x 6	17 x 10	1.52	650	435	3444	2439

Note: \*Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



# 15 kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient		Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands						Direct Burial	in Buried Duct		
06-14-											

## COPPER CONDUCTOR, 15kV, 100% IL

Product Code Prefix 06-14-xxxx

1401	2	7	175	30	16 x 14	6 x 14	0.87	210	150	580	453
1402	1	19	175	30	13 x 12	7 x 14	0.94	240	171	705	532
1403	1/0	19	175	30	16 x 12	9 x 14	1.98	273	194	850	641
1404	2/0	19	175	30	13 x 10	11 x 14	1.07	313	224	1030	766
1405	3/0	19	175	30	16 x 10	14 x 14	1.12	358	255	1265	939
1406	4/0	19	175	30	20 x 10	18 x 14	1.17	410	293	1555	1138
1407	250	37	175	30	24 x 10	21 x 14	1.22	433	309	1833	1300
1408	350	37	175	30	22 x 8	18 x 12	1.40	520	374	2573	1805
1409	500	37	175	30	19 x 6	17 x 10	1.59	631	450	3568	2480

## COPPER CONDUCTOR, 15kV, 133% IL

Product Code Prefix 06-14-xxxx

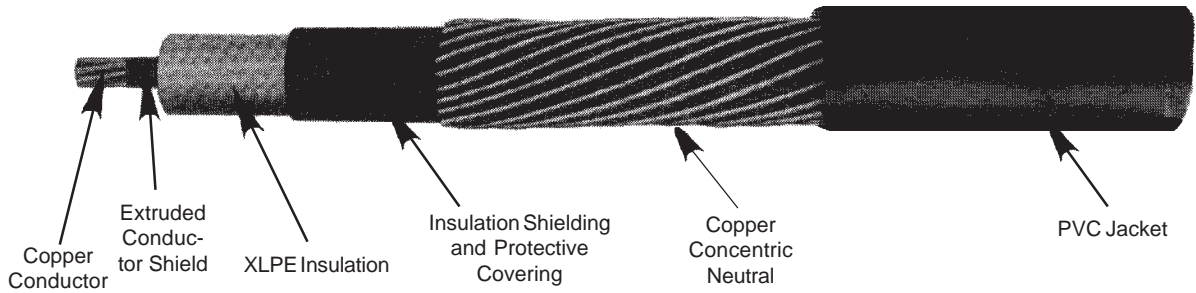
1421	2	7	220	30	16 x 14	6 x 14	0.96	210	150	620	493
1422	1	19	220	30	13 x 12	7 x 14	1.03	240	171	750	577
1423	1/0	19	220	30	16 x 12	9 x 14	1.07	273	194	895	686
1424	2/0	19	220	30	13 x 10	11 x 14	1.16	313	224	1070	806
1425	3/0	19	220	30	16 x 10	14 x 14	1.21	358	255	1305	979
1426	4/0	19	220	30	20 x 10	18 x 14	1.27	410	293	1605	1188
1427	250	37	220	30	24 x 10	21 x 14	1.33	433	309	1933	1400
1428	350	37	220	30	22 x 8	18 x 12	1.49	520	374	2648	1880
1429	500	37	220	30	19 x 6	17 x 10	1.69	631	450	3648	2560

Note: \* Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



# 15 KV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE, PVC JACKET



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	PVC Jacket in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient in Buried Duct	Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands									
06-14-											

## COPPER CONDUCTOR, 15kV, 100% IL

Product Code Prefix 06-14-xxxx

1501	2	7	175	30	50	16 x 14	6 x 14	1.05	150	700	561
1502	1	19	175	30	50	13 x 12	7 x 14	1.11	171	850	680
1503	1/0	19	175	30	50	16 x 12	9 x 14	1.15	194	990	775
1504	2/0	19	175	30	50	20 x 12	11 x 14	1.19	224	1185	914
1505	3/0	19	175	30	50	25 x 12	14 x 14	1.25	255	1400	1059
1506	4/0	19	175	30	50	32 x 12	18 x 14	1.31	293	1725	1294
1507	250	37	175	30	50	24 x 10	14 x 12	1.42	309	1914	1405
1508	350	37	175	30	50	34 x 10	19 x 12	1.56	374	2664	1951
1509	500	37	175	30	80	30 x 8	26 x 12	1.68	450	3668	2649

## COPPER CONDUCTOR, 15kV, 133% IL

Product Code Prefix 06-14-xxxx

1521	2	7	220	30	50	16 x 14	6 x 14	1.16	150	760	621
1522	1	19	220	30	50	13 x 12	7 x 14	1.20	171	920	750
1523	1/0	19	220	30	50	16 x 12	9 x 14	1.24	194	1065	850
1524	2/0	19	220	30	50	20 x 12	11 x 14	1.28	224	1260	989
1525	3/0	19	220	30	50	25 x 12	14 x 14	1.36	255	1495	1154
1526	4/0	19	220	30	50	32 x 12	18 x 14	1.42	293	1820	1389
1527	250	37	220	30	50	24 x 10	14 x 12	1.51	309	2021	1512
1528	350	37	220	30	50	34 x 10	19 x 12	1.65	374	2745	2032
1529	500	37	220	30	80	30 x 8	26 x 12	1.78	450	3753	2734

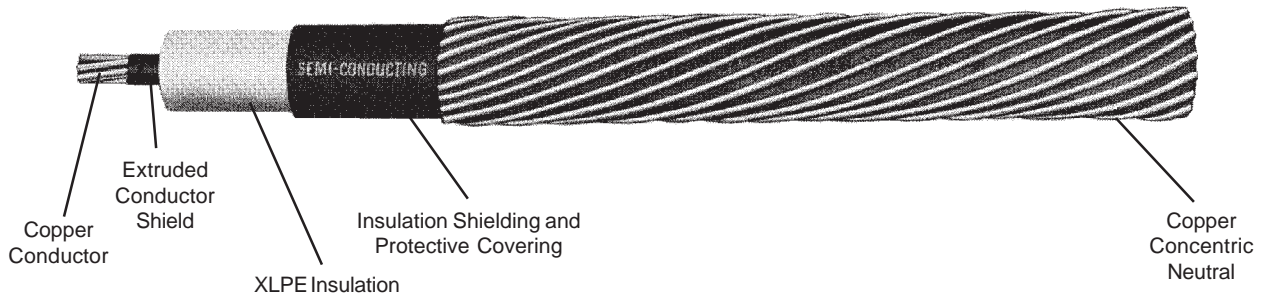
Note: \*Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.





# 25 - 28kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient		Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands						Direct Burial	in Buried Duct		

COPPER CONDUCTOR, 25kV, 100% IL

Product Code Prefix 06-14-xxxx

1601	1	19	260	30	13 x 12	7 x 14	1.11	240	171	851	648
1602	1/0	19	260	30	16 x 12	9 x 14	1.15	273	194	1008	764
1603	2/0	19	260	30	13 x 10	11 x 14	1.24	313	224	1207	898
1604	3/0	19	260	40	16 x 10	14 x 14	1.31	358	255	1470	1074
1605	4/0	19	260	40	20 x 10	18 x 14	1.37	410	293	1785	1298
1606	250	37	260	40	24 x 10	21 x 14	1.41	433	309	2085	1500
1607	350	37	260	40	22 x 8	18 x 12	1.57	520	374	2865	1975
1608	500	37	260	40	19 x 6	17 x 10	1.77	631	450	3883	2689
1609	750	61	260	50	23 x 5	16 x 8	2.00	761	565	5669	3815
1610	1000	61	260	50	24 x 4	21 x 8	2.20	887	638	7496	5066

COPPER CONDUCTOR, 28kV, 100% IL

Product Code Prefix 06-14-xxxx

1621	1	19	280	30	13 x 12	7 x 14	1.15	240	171	883	681
1622	1/0	19	280	30	16 x 12	9 x 14	1.19	273	194	1041	798
1623	2/0	19	280	40	13 x 10	11 x 14	1.30	313	224	1242	933
1624	3/0	19	280	40	16 x 10	14 x 14	1.35	358	255	1506	1110
1625	4/0	19	280	40	20 x 10	18 x 14	1.41	410	293	1824	1337
1626	250	37	280	40	24 x 10	21 x 14	1.45	433	309	2122	1536
1627	350	37	280	40	22 x 8	18 x 12	1.61	520	374	2905	2015
1628	500	37	280	40	19 x 6	17 x 10	1.81	631	450	3926	2732
1629	750	61	280	50	23 x 5	16 x 8	2.04	761	565	5717	3863
1630	1000	61	280	50	24 x 4	21 x 8	2.24	887	638	7555	5125

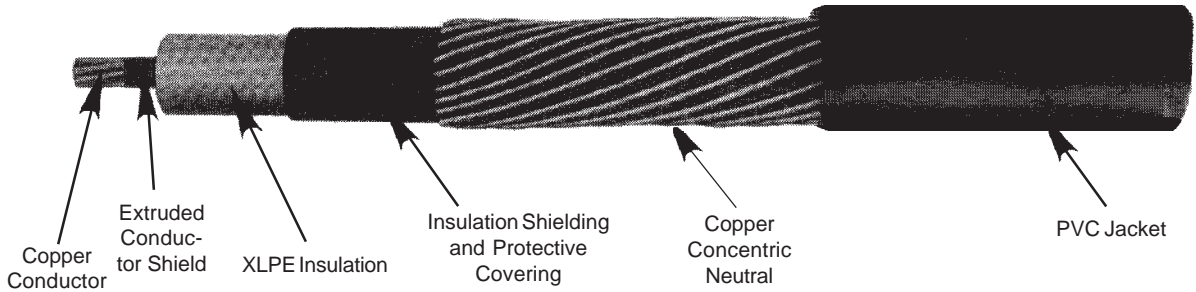
Note: \* Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.





# 25-28kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE, PVC JACKET



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	PVC Jacket in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient in Buried Duct	Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands									

## COPPER CONDUCTOR, 25kV, 100% IL

Product Code Prefix 06-14-xxxx

1701	1	19	260	30	50	13 x 12	7 x 14	1.21	171	963	760
1702	1/0	19	260	30	50	16 x 12	9 x 14	1.25	194	1124	880
1702	2/0	19	260	30	50	13 x 10	11 x 14	1.34	224	1331	1023
1704	3/0	19	260	40	50	16 x 10	14 x 14	1.41	255	1602	1206
1705	4/0	19	260	40	50	20 x 10	18 x 14	1.47	293	1922	1435
1706	250	37	260	40	50	24 x 10	21 x 14	1.51	309	2227	1641
1707	350	37	260	40	80	22 x 8	18 x 12	1.73	374	3120	2230
1708	500	37	260	40	80	19 x 6	17 x 10	1.93	450	4168	2974
1709	750	61	260	50	80	23 x 5	16 x 8	2.16	565	5991	4137
1710	1000	61	260	50	80	24 x 4	21 x 8	2.36	638	7848	5418

## COPPER CONDUCTOR, 28kV, 100% IL

Product Code Prefix 06-14-xxxx

1721	1	19	280	30	50	13 x 12	7 x 14	1.25	171	1000	797
1722	1/0	19	280	30	50	16 x 12	9 x 14	1.29	194	1162	918
1723	2/0	19	280	40	50	13 x 10	11 x 14	1.40	224	1372	1064
1724	3/0	19	280	40	50	16 x 10	14 x 14	1.45	255	1642	1246
1725	4/0	19	280	40	50	20 x 10	18 x 14	1.51	293	1965	1477
1726	250	37	280	40	50	24 x 10	21 x 14	1.55	309	2267	1681
1727	350	37	280	40	80	22 x 8	18 x 12	1.77	374	3167	2276
1728	500	37	280	40	80	19 x 6	17 x 10	1.97	450	4218	3024
1729	750	61	280	50	80	23 x 5	16 x 8	2.20	565	6045	4191
1730	1000	61	280	50	80	24 x 4	21 x 8	2.40	638	7914	5484

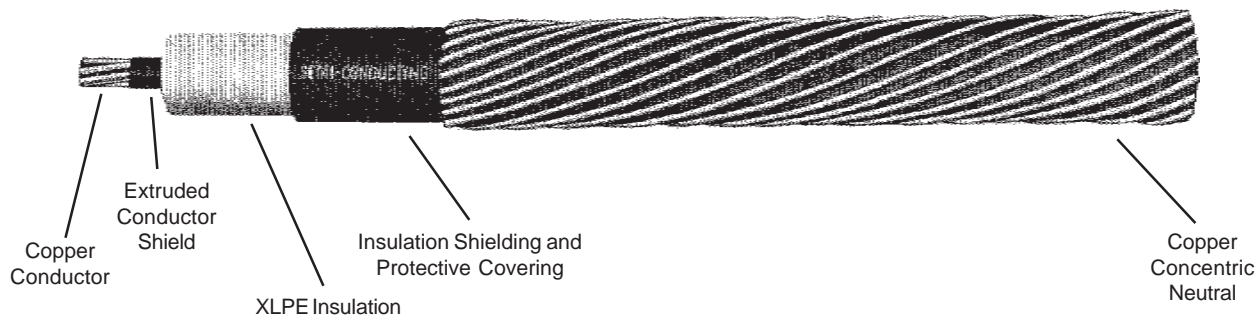
Note: \*Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



**United Wire & Cable**

# 28/35 kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient		Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands						Direct Burial	in Buried Duct		
06-14-											

**COPPER CONDUCTOR, 28kV, 133% IL**  
**COPPER CONDUCTOR, 35 kV, 100% IL**

**Product Code Prefix 06-14-xxxx**

1801	1	19	345	40	13 x 12	7 x 14	1.30	240	171	990	787
1802	1/0	19	345	40	16 x 12	9 x 14	1.34	273	194	1151	907
1803	2/0	19	345	40	13 x 10	11 x 14	1.43	313	224	1355	1047
1804	3/0	19	345	40	16 x 10	14 x 14	1.48	358	255	1623	1227
1805	4/0	19	345	40	20 x 10	18 x 14	1.54	410	293	1948	1461
1806	250	37	345	40	24 x 10	21 x 14	1.58	433	309	2240	1654
1807	350	37	345	40	22 x 8	18 x 12	1.74	520	374	3036	2146
1808	500	37	345	50	19 x 6	17 x 10	1.96	631	450	4066	2873
1809	750	61	345	50	23 x 5	16 x 8	2.17	761	565	5872	4018
1810	1000	61	345	50	24 x 4	21 x 8	2.37	887	638	7749	5319

**COPPER CONDUCTOR, 35kV, 133% IL**

**Product Code Prefix 06-14-xxxx**

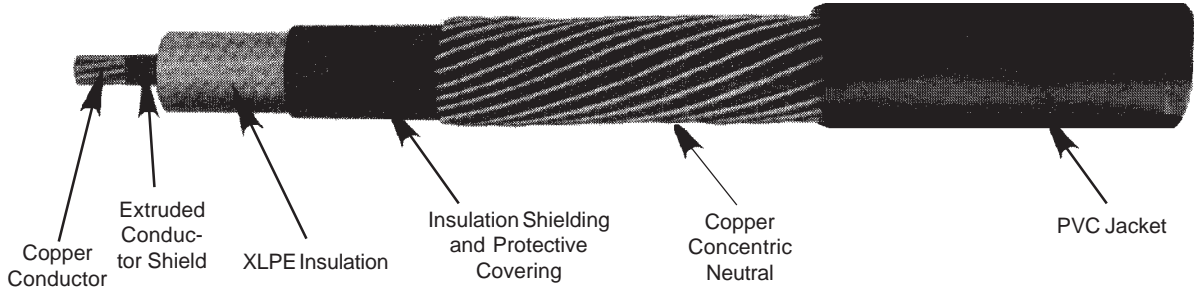
1821	1	19	420	40	13 x 12	7 x 14	1.45	240	171	1103	900
1822	1/0	19	420	40	16 x 12	9 x 14	1.49	273	194	1267	1023
1823	2/0	19	420	40	13 x 10	11 x 14	1.58	313	224	1475	1167
1824	3/0	19	420	40	16 x 10	14 x 14	1.63	358	255	1747	1351
1825	4/0	19	420	40	20 x 10	18 x 14	1.69	410	293	2079	1592
1826	250	37	420	40	24 x 10	21 x 14	1.73	433	309	2364	1779
1827	350	37	420	50	22 x 8	18 x 12	1.91	520	374	3175	2285
1828	500	37	420	50	19 x 6	17 x 10	2.11	631	450	4216	3022
1829	750	61	420	50	23 x 5	16 x 8	2.32	761	565	6036	4182
1830	1000	61	420	50	24 x 4	21 x 8	2.52	887	638	7954	5524

**Note:** \* Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



# 28/35 kV UNDERGROUND DISTRIBUTION POWER CABLE , XLPE, PVC JACKET



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Insulation Shielding and Protective Covering in Mils	PVC Jacket in Mils	URD Concentric Neutral Full No. x Size AWG	UD Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. in Inches	Ampacity* 20°C Ambient in Buried Duct	Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3 Neutral LBS/KFT
	Size AWG or MCM	No. of Strands									

**COPPER CONDUCTOR, 28kV, 133% IL**  
**COPPER CONDUCTOR, 35kV, 100% IL**

**Product Code Prefix 06-14-xxxx**

1901	1	19	345	40	50	13 x 12	7 x 14	1.40	171	1121	918
1902	1/0	19	345	40	50	16 x 12	9 x 14	1.44	194	1286	1042
1903	2/0	19	345	40	50	13 x 10	11 x 14	1.53	224	1498	1190
1904	3/0	19	345	40	50	16 x 10	14 x 14	1.58	255	1771	1375
1905	4/0	19	345	40	80	20 x 10	18 x 14	1.70	293	2198	1711
1906	250	37	345	40	80	24 x 10	21 x 14	1.74	309	2497	1911
1907	350	37	345	40	80	22 x 8	18 x 12	1.90	374	3318	2427
1908	500	37	345	50	80	19 x 6	17 x 10	2.12	450	4382	3188
1909	750	61	345	50	80	23 x 5	16 x 8	2.33	565	6221	4367
1910	1000	61	345	50	80	24 x 4	21 x 8	2.53	638	8128	5698

**COPPER CONDUCTOR, 35kV, 133% IL**

**Product Code Prefix 06-14-xxxx**

1921	1	19	420	40	50	13 x 12	7 x 14	1.55	171	1248	1045
1922	1/0	19	420	40	50	16 x 12	9 x 14	1.59	194	1416	1173
1923	2/0	19	420	40	80	13 x 10	11 x 14	1.74	224	1732	1423
1924	3/0	19	420	40	80	16 x 10	14 x 14	1.79	255	2012	1616
1925	4/0	19	420	40	80	20 x 10	18 x 14	1.85	293	2353	1865
1926	250	37	420	40	80	24 x 10	21 x 14	1.89	309	2645	2059
1927	350	37	420	50	80	22 x 8	18 x 12	2.07	374	3483	2592
1928	500	37	420	50	80	19 x 6	17 x 10	2.27	450	4554	3360
1929	750	61	420	50	80	23 x 5	16 x 8	2.48	565	6408	4554
1930	1000	61	420	50	80	24 x 4	21 x 8	2.68	638	8356	5926

**Note:** \*Based on 90°C conductor temperature, 100% load factor, RHO-90 per ICEA S-66-524, Appendix F.

The above data is approximate and subject to normal manufacturing tolerances.



