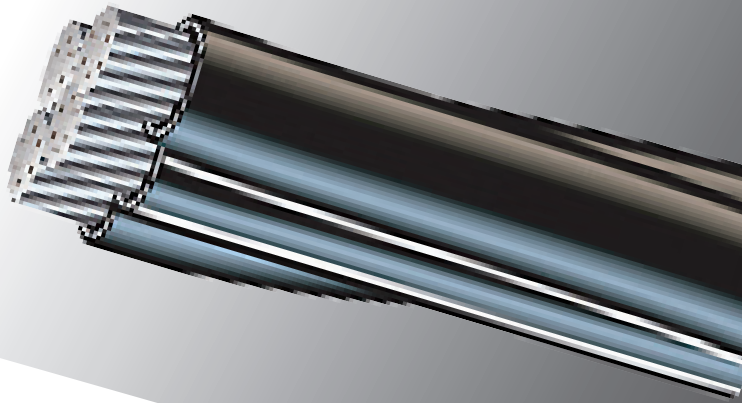
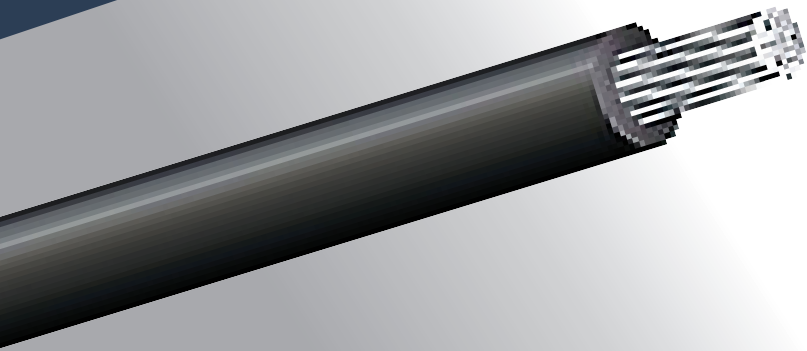


# CONDUCTOR



**RESCO**  
SUPPLYING THE COOPERATIVE ADVANTAGE



# CONDUCTOR

ACSR BARE ALUMINUM OVERHEAD CONDUCTOR															
CODE WORD	SIZE AVE	STRAND AL/STEEL	WEIGHT per 1000	FEET/LB	DIAMETER (INCHES)	RATED STRENGTH LBS	AMPS <sup>(1)</sup>	STANDARD PACKAGES							
								240 LB COIL FT	600 LB 30.22 REEL FT	885 LB 36.22 REEL FE	1770 LB 42.28 REEL FT	2080 LB 48.28 REEL FT	3795 LB 60.28 REEL FT	4160 LB 66.28 REEL FT	7590 LB 84.36 REEL FT
SWANATE	4	7/1	67.1	14.90	0.257	2,360	130	3,880	8,955						
SPARROW	2	6/1	91.3	10.95	0.316	2,850	175			9,695	19,390				
SPARATE	2	7/1	106.7	9.37	0.325	3,540	175		5,625						
RAVEN	1/0	6/1	145.3	6.88	0.398	4,380	230			6,090	12,180				
QUAIL	2/0	6/1	183.2	5.46	0.447	5,310	265			4,830	9,600				
PIGEON	3/0	6/1	230.8	4.33	0.502	6,620	310			3,835	7,670				
PENQUIN	4/0	6/1	291.1	3.44	0.563	8,350	350			3,040	6,080				
WAX WING	266.8	18/1	289.5	3.45	0.609	9,880	430					7,185			
PARTRIDGE	266.6	26/7	367.3	2.72	0.642	11,300	440						3,795		
MERLIN	336.4	18/1	365.2	2.74	0.684	8,680	500					5,695		11,390	
LINNETT	336.4	26/7	462.5	2.16	0.720	14,100	510						8,205		
PELICAN	477	18/1	518.0	1.93	0.814	11,800	625					4,015		8,030	
HAWK	477	26/7	666.0	1.52	0.858	19,500	640						5,785		11,570
OSPREY	556.5	18/1	604.1	1.66	0.879	13,700	690					3,445		6,890	
DOVE	556.5	26/7	766.0	1.31	0.927	22,6000	710						4,955		9,910
DRAKE	795	26/7	1,094	0.91	1.108	31,500	890						3,470		6,940

(1) Ampacity for conductor temperature rise of 40°C over 40°



COVERED OVERHEAD TRIPLEX 600 VOLT POLY ALUMINUM										
CODE WORD	PHASE CONDUCTOR		BARE NEUTRAL MESSENGER		AMPS <sup>(1)</sup>	WEIGHT per 1000	FEET/LB	STANDARD PACKAGES		
	SIZE AWG	INSUL. THICK MILS	SIZE AWG	RATED STRENGTH LB		POLY	POLY	COILS FT	REEL FT	REEL SIZE
<b>ACSR FULL NEUTRAL MESSENGER</b>										
VOLUTA	6	45	6-6/1	1190	80	113.1	8.84	500	2500	30.18
PERIWINKLE	4	45	4-6/1	1860	110	172	5.81	500	1500	30.18
CONCH	2	45	2-6/1	2850	150	261	3.83	500	1800	36.24
NERITINA	1/0	60	1/0-6/1	4380	200	419	2.39	500	1200	36.24
RUNCINA	2/0	60	2/0-6/1	5310	225	519	1.93		1500	42.26
MURSIA	3/0	60	3/0-6/1	6620	260	638	1.57		1300	42.26
ZUZARA	4/0	60	4/0-6/1	8350	305	792	1.26		1000	42.26
<b>ACSR REDUCED NEUTRAL MESSENGER</b>										
COCKLE	2	45	4-6/1	1860	150	227	4.41	500	1800	36.24
JANTHINA	1/0	45	2-6/1	2850	200	365	2.74	500	1200	36.24
CAVOLINIA	2/0	60	1-6/1	3550	225	451	2.22		1500	42.26
AEGA	3/0	60	1/0-6/1	4350	260	552	1.81		1300	42.26
CERAPUS	4/0	60	2/0-6/1	5310	300	684	1.46		1000	42.26

(1) Ampacity for conductor temperature rise of 35°C over 40°C ambient.

COVERED OVERHEAD TRIPLEX 600 VOLT XLP ALUMINUM										
CODE WORD	PHASE CONDUCTOR		BARE NEUTRAL MESSENGER		AMPS <sup>(1)</sup>	WEIGHT per 1000	FEET/LB	STANDARD PACKAGES		
	SIZE AWG	INSUL. THICK MILS	SIZE AWG	RATED STRENGTH LB		XLP	XLP	COILS FT	REEL FT	REEL SIZE
<b>ACSR FULL NEUTRAL MESSENGER</b>										
VOLUTA-XLP	6	45	6-6/1	1190	90	116.2	8.61	500	2500	30.18
PERIWINKLE-XLP	4	45	4-6/1	1860	125	176	5.68	500	1500	30.18
CONCH-XLP	2	45	2-6/1	2850	145	267	3.75	500	1800	36.24
NERITINA-XLP	1/0	60	1/0-6/1	4380	190	430	2.33	500	1200	36.24
RUNCINA-XLP	2/0	60	2/0-6/1	5310	220	530	1.89		1500	42.26
MURSIA-XLP	3/0	60	3/0-6/1	6620	260	650	1.54		1300	42.26
ZUZARA-XLP	4/0	60	4/0-6/1	8350	300	806	1.24		1000	42.26
<b>ACSR REDUCED NEUTRAL MESSENGER</b>										
COCKLE-XLP	2	45	4-6/1	1860	170	233	4.29	500	1800	36.24
JANTHINA-XLP	1/0	45	2-6/1	2850	225	376	2.66	500	1800	36.24
CAVOLINIA-XLP	2/0	45	2-6/1	3550	265	462	2.16		1500	42.26
AEGA-XLP	3/0	60	1/0-6/1	4350	305	565	1.77		1300	42.26
CERAPUS-XLP	4/0	60	2/0-6/1	5310	355	699	1.43		1000	42.26

(1) Ampacity for conductor temperature rise of 35°C over 40°C ambient.

Madison, WI

Mt. Pleasant, MI

Williston, ND

Kearney, NE

Moorhead, MN

Elkhart, IA

Pierre, SD

# CONDUCTOR

COVERED OVERHEAD QUADRUPLIX 600 VOLT POLY ALUMINUM										
CODE WORD	PHASE CONDUCTOR		BARE NEUTRAL MESSENGER		AMPS <sup>(1)</sup>	WEIGHT per 1000	FEET/LB	STANDARD PACKAGES		
	SIZE AWG	INSUL. THICK MILS	SIZE AWG	RATED STRENGTH LB		POLY	POLY	COILS FT	REEL FT	REEL SIZE
<b>ACSR FULL NEUTRAL MESSENGER</b>										
HACKNEY	4-7	45	4-6/1	1860	100	229	4.37	500	1500	36.24
PALOMINO	2-7	45	2-6/1	2850	130	346	2.89	500	1800	42.26
COSTENA	1/0-19	60	1/0-6/1	4380	180	551	1.81		1100	42.26
GRULLO	2/0-19	60	2/0-6/1	5310	200	680	1.47		1500	50.32
SUFFOLK	3/0-19	60	3/0-6/1	6620	235	841	1.19		1300	50.32
APPALOOSA	4/0-19	60	4/0-6/1	8350	275	1042	0.96		1000	50.32
<b>COVERED OVERHEAD DUPLEX 600 VOLT POLY ALUMINUM</b>										
SHEPHERD	6-7	45	6-6/1	1110	80	65	15.38	500	2800	30.18

(1) Ampacity for conductor temperature rise of 35°C over 40°C ambient.

COVERED OVERHEAD QUADRUPLIX 600 VOLT XLP ALUMINUM										
CODE WORD	PHASE CONDUCTOR		BARE NEUTRAL MESSENGER		AMPS <sup>(1)</sup>	WEIGHT per 1000	FEET/LB	STANDARD PACKAGES		
	SIZE AWG	INSUL. THICK MILS	SIZE AWG	RATED STRENGTH LB		XLP	XLP	COILS FT	REEL FT	REEL SIZE
<b>ACSR FULL NEUTRAL MESSENGER</b>										
HACKNEY-XLP	4-7	45	4-6/1	1860	100	115	4.24	500	1500	36.24
PALOMINO-XLP	2-7	45	2-6/1	2850	130	155	2.82	500	1800	42.26
COSTENA-XLP	1/0-19	60	1/0-6/1	4350	180	210	1.77		1100	42.26
GRULLO-XLP	2/0-19	60	2/0-6/1	5310	200	245	1.43		1500	50.32
SUFFOLK-XLP	3/0-19	60	3/0-6/1	6620	235	280	1.16		1300	50.32
APPALOOSA-XLP	4/0-19	60	4/0-6/1	8350	275	325	0.94		1000	50.32
<b>COVERED OVERHEAD DUPLEX 600 VOLT XLP ALUMINUM</b>										
SHEPHERD-XLP	6-7	45	6-6/1	1110	80	67	14.93	500	2800	30.18

(1) Ampacity for conductor temperature rise of 35°C over 40°C ambient.



URD 600 VOLT TRIPLEX XLP ALUMINUM													
CODE WORD	PHASE CONDUCTOR		NEUTRAL CONDUCTOR		INSULATION THICKNESS IN.		WEIGHT per 1000	FEET/LB	AMPACITY <sup>(1)</sup>		STANDARD PACKAGES		
	SIZE AWG	STRAND	SIZE AWG	STRAND	PHASE	NEUTRAL			DIRECT BURIAL	IN CONDUCT	FEET	REEL SIZE	OD INCHES
<b>REDUCED NEUTRAL</b>													
STEPHENS	2	7	4	7	.060	.060	275	3.64	168	122	1000	32.24	.88
BRENAU	1/0	19	2	7	.080	.060	420	2.38	220	164	1000	36.24	1.13
CONVERSE	2/0	19	1	19	.080	.080	520	1.92	250	184	1000	40.24	1.22
HOLLINS	3/0	19	1/0	19	.080	.080	642	1.56	284	208	1000	42.26	1.29
SWEETBRIAR	4/0	19	2/0	19	.080	.080	760	1.32	324	247	1000	42.26	1.47
PRATT	250	37	3/0	19	.095	.080	938	1.07	345	265	1000	50.32	1.57
WESLEYAN	350	37	4/0	19	.095	.080	1195	0.84	420	324	1000	50.32	1.85
RIDER	500	37	350	37	.095	.095	1723	0.58	510	407	1000	58.32	2.12
<b>FULL NEUTRAL</b>													
RAMAPO	2	7	2	7	.060	.060	305	3.28	168	122	1000	32.24	.90
BERGEN	1/0	19	1/0	19	.080	.080	480	2.08	220	164	1000	40.24	1.16
HUNTER	2/0	19	2/0	19	.080	.080	580	1.72	250	184	1000	40.24	1.27
ROCKLAND	3/0	19	3/0	19	.080	.080	715	1.40	284	208	1000	42.26	1.34
MONMOUTH	4/0	19	4/0	19	.080	.080	850	1.18	324	247	1000	45.28	1.49

(1) Ampacities are based on 90°C conductor temperature, 20°C ambient earth, and 100% load factor, for Triplex cable buried 36 inches deep, with phase conductors only carrying current.

URD 600 VOLT QUADRUPLX XLP ALUMINUM													
CODE WORD	PHASE CONDUCTOR		NEUTRAL CONDUCTOR		INSULATION THICKNESS IN.		WEIGHT per 1000	FEET/LB	AMPACITY <sup>(1)</sup>		STANDARD PACKAGES		
	SIZE AWG	STRAND	SIZE AWG	STRAND	PHASE	NEUTRAL			DIRECT BURIAL	IN CONDUCT	FEET	REEL SIZE	OD INCHES
<b>REDUCED NEUTRAL</b>													
DYKE	2	7	4	7	.060	.060	382	2.62	155	115	1000	40.24	1.11
NOTRE DAME	1/0	19	2	7	.080	.060	590	1.69	200	150	1000	40.24	1.42
SYRACUSE	2/0	19	1	19	.080	.080	721	1.39	225	170	1000	42.26	1.54
SWARTHMORE	3/0	19	1/0	19	.080	.080	869	1.15	250	195	1000	42.26	1.67
WAKE FOREST	4/0	19	2/0	19	.080	.080	1052	0.95	290	225	1000	50.32	1.82
RUST	250	27	3/0	19	.095	.080	1297	0.77	319	255	1000	50.32	2.04
SLIPPERY ROCK	350	37	4/0	19	.095	.080	1658	0.60	385	308	1000	58.32	2.31
MORE HOUSE	500	37	300	37	.095	.095	2313	0.43	467	373	1000	58.32	2.61
<b>FULL NEUTRAL</b>													
WITTENBURG	2	7	2	7	.060	.060	413	2.42	155	115	1000	40.24	1.19
PURDUE	1/0	19	1/0	19	.080	.080	649	1.54	200	150	1000	40.24	1.53
LAFAYETTE	2/0	19	2/0	19	.080	.080	780	1.28	225	170	1000	42.26	1.66
DAVIDSON	3/0	19	3/0	19	.080	.080	963	1.04	250	195	1000	42.26	1.79
EARLHAM	4/0	19	4/0	19	.080	.080	1142	0.88	291	225	1000	50.32	1.95

(1) Ampacities are based on 90°C conductor temperature, 20°C ambient earth, and 100% load factor, for Triplex cable buried 36 inches deep, with phase conductors only carrying current.

Madison, WI

Mt. Pleasant, MI

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# CONDUCTOR

BARE COPPER WIRE									
SIZE (AWG OR KCM)	STRANDING	FEET/LB	WEIGHT per 1000 FT (LBS)	DIAMETER (MILS)		HARD-DRAWN	MEDIUM \HARD- DRAWN	SOFT-DRAWN (ANNEALED)	AMPACITY <sup>(1)</sup>
				INDIVIDUAL WIRES	COMPLETE WIRES	MIN. ULTIMATE STRENGTH (LBS)	MIN ULTIMATE STRENGTH (LBS)	MAX. ULTIMATE STRENGTH (LBS)	
<b>STRANDED</b>									
8	7	19.61	51.0	48.6	146	777	610	499	95
6	7	12.33	81.1	61.2	184	1228	959	794	130
4	7	7.76	128.9	77.2	232	1938	1505	1320	170
2	7	4.88	204.9	97.4	292	3050	2360	2110	230
1	7	3.87	258.4	109.3	328	3801	6995	2552	265
1/0	7	3.07	325.8	122.8	368	4752	3705	3221	310
2/0	7	2.43	410.9	137.9	414	5926	4640	4062	355
2/0	19	2.43	410.9	83.7	419	6690	4765	4024	355
3/0	7	1.93	518.1	154.8	464	7366	5812	5118	410
4/0	7	1.53	653.3	173.9	522	9154	7278	6459	480
4/0	19	1.53	653.3	105.5	528	9617	7479	6453	480
250	19	1.30	771.9	114.7	574	11360	8836	7672	530
250	37	1.30	771.9	82.2	575	11600	8952	7940	530
300	19	1.08	926.3	125.7	629	13510	10530	9160	590
350	19	0.93	1081.0	135.7	678	15590	12200	10680	650
400	19	0.81	1235.0	145.1	726	17810	13950	12200	710
500	37	0.65	1544.0	116.2	813	22510	17550	15240	810
600	37	0.54	1853.0	127.3	891	27020	21060	18300	910
750	67	0.43	2316.0	110.9	998	34090	26510	22890	1040
1000	61	0.32	3088.0	128.0	1152	45030	35100	30500	1240

(1) Ampacity based on 75°C ambient temperature; 25°C ambient temperature, 2ft/sec. Wind in sun.

SIZE (AWG OR KCM)	WEIGHT per 1000 FT (LBS)	DIAMETER	FEET/LB	HARD-DRAWN MIN. ULTIMATE STRENGTH	MED. HARD-DRAWN MIN. ULTIMATE STRENGTH	SOFT-DRAWN (ANNEALED)MAX. ULTIMATE STRENGTH	AMPACITY <sup>(1)</sup>
<b>SOLID</b>							
8	50.0	128.5	20.0	826	643.9	479.8	95
7	63.0	144.3	15.87	1030.0	806.6	605.0	105
6	79.4	162.0	12.59	1280.0	1010.0	962.9	125
5	100.2	181.9	9.98	1591.0	1265.0	961.9	145
4	126.3	204.3	7.92	1970.0	1584.0	1213.0	170
3	159.3	229.4	6.28	2439.0	1984.0	1530.0	195
2	200.9	257.6	4.98	3003.0	2450.0	1929.0	225
1	253.3	289.3	3.95	3688.0	3024.0	2432.0	260

(1) Ampacity based on 75°C ambient temperature; 25°C ambient temperature, 2ft/sec. Wind in sun.



UNDERGROUND DISTRIBUTION PRIMARY CABLE – TR-XLP INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.175" XLP INSULATION-JACKETED TYPE UD-P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.670	.750	.880	1.000	.050	475	2.10
2	7	10	14	.695	.775	.905	1.025	.050	485	2.05
1	1	13	14	.700	.780	1.030	1.030	.050	535	1.87
1	19	13	14	.730	.810	.910	1.060	.050	550	1.82
1/0	1	16	14	.735	.815	.945	1.065	.050	615	1.63
1/0	19	16	14	.770	.850	.980	1.100	.050	630	1.58
2/0	19	20	14	.815	.895	1.025	1.145	.050	760	1.32
3/0	19	16	12	.865	.945	1.105	1.225	.050	875	1.14
4/0	19	20	12	.920	1.000	1.160	1.280	.050	1030	.97
<b>.220 XLP INSULATION-JACKETED TYPE UD-P - 90°C - 133% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.760	.840	.970	1.090	.050	530	1.89
2	7	10	14	.785	.865	.995	1.115	.050	550	1.82
1	1	13	14	.790	.870	1.000	1.120	.050	595	1.68
1	19	13	14	.820	.900	1.030	1.150	.050	615	1.63
1/0	1	16	14	.825	.905	1.035	1.155	.050	670	1.49
1/0	19	16	14	.860	.940	1.070	1.190	.050	700	1.43
2/0	19	20	14	.905	.985	1.115	1.235	.050	800	1.19
3/0	19	16	12	.955	1.035	1.195	1.315	.050	950	1.05
4/0	19	20	12	1.010	1.090	1.250	1.370	.050	1000	.91
<b>.175 XLP INSULATION-JACKETED TYPE UD-P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.670	.750	.880	1.000	.050	420	2.38
2	7	6	14	.695	.775	.905	1.025	.050	435	2.30
1	1	6	14	.700	.780	.910	1.030	.050	450	2.22
1	19	6	14	.730	.810	.940	1.060	.050	470	2.13
1/0	1	6	14	.735	.815	.945	1.065	.050	490	2.04
1/0	19	6	14	.770	.850	.980	1.100	.050	510	1.96
2/0	19	7	14	.815	.895	1.025	1.145	.050	575	1.74
3/0	19	9	14	.865	.945	1.075	1.195	.050	655	1.53
4/0	19	11	14	.920	1.000	1.130	1.250	.050	760	1.32
250	37	13	14	.980	1.060	1.190	1.310	.050	890	1.12
350	37	18	14	1.080	1.200	1.330	1.430	.050	1175	.95
500	37	16	12	1.210	1.330	1.490	1.590	.060	1500	.67
750	61	15	10	1.400	1.520	1.725	1.840	.080	2055	.49
1000	61	20	10	1.545	1.705	1.910	2.050	.080	2515	.40

Madison, WI

Mt. Pleasant, MI

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Kearney, NE

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Elkhart, IA

Pierre, SD

# CONDUCTOR

UNDERGROUND DISTRIBUTION PRIMARY CABLE – TR-XLP INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.220" XLP INSULATION-JACKETED TYPE UD-P - 90°C - 133% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.760	.840	.970	1.090	.050	480	2.10
2	7	6	14	.785	.865	.995	1.115	.050	500	2.00
1	1	6	14	.790	.870	1.000	1.120	.050	505	1.98
1	19	6	14	.820	.900	1.030	1.150	.050	535	1.87
1/0	1	6	14	.825	.905	1.035	1.155	.050	560	1.79
1/0	19	6	14	.860	.940	1.070	1.190	.050	585	1.71
2/0	19	7	14	.905	.985	1.115	1.235	.050	650	1.54
3/0	19	9	14	.955	1.035	1.165	1.285	.050	730	1.37
4/0	19	11	14	1.010	1.090	1.220	1.340	.050	820	1.20
250	37	13	14	1.070	1.190	1.320	1.420	.050	950	1.05
350	37	18	14	1.170	1.290	1.420	1.520	.050	1200	.83
500	37	16	12	1.300	1.420	1.580	1.740	.080	1580	.63
750	61	15	10	1.490	1.610	1.815	1.930	.080	2120	.47
1000	61	20	10	1.635	1.795	2.000	2.140	.080	2700	.37
<b>25kv CLASS CABLE: .260 XLP INSULATION-JACKETED TYPE UD-P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.840	.920	1.050	1.170	.050	580	1.72
2	7	10	14	.865	.945	1.075	1.195	.050	605	1.65
1	1	13	14	.870	.950	1.080	1.200	.050	855	1.52
1	19	13	14	.900	.980	1.110	1.230	.050	875	1.48
1/0	1	16	14	.905	.985	1.115	1.235	.050	730	1.37
1/0	19	16	14	.940	1.020	1.150	1.270	.050	755	1.32
2/0	19	20	14	.985	1.065	1.195	1.315	.050	855	1.17
3/0	19	16	12	1.035	1.155	1.315	1.415	.050	1035	.97
4/0	19	20	12	1.090	1.210	1.370	1.470	.050	1185	.84
<b>.260 XLP INSULATION-JACKETED TYPE UD-P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.840	.920	1.050	1.170	.050	535	1.87
2	7	6	14	.865	.945	1.075	1.195	.050	555	1.80
1	1	6	14	.870	.950	1.080	1.200	.050	575	1.74
1	19	6	14	.900	.980	1.110	1.230	.050	595	1.68
1/0	1	6	14	.905	.985	1.115	1.235	.050	615	1.63
1/0	19	6	14	.940	1.020	1.150	1.270	.050	640	1.56
2/0	19	7	14	.985	1.065	1.195	1.315	.050	700	1.43
3/0	19	9	14	1.035	1.135	1.265	1.385	.050	815	1.23
4/0	19	11	14	1.090	1.190	1.320	1.440	.050	910	1.10
250	37	13	14	1.160	1.260	1.390	1.510	.050	1010	.99
350	37	18	14	1.260	1.360	1.490	1.610	.050	1230	.81
500	37	16	12	1.390	1.490	1.650	1.830	.080	1640	.61
750	61	51	10	1.580	1.700	1.865	2.040	.080	2190	.46
1000	61	20	10	1.725	1.845	2.050	2.230	.080	2745	.36





UNDERGROUND DISTRIBUTION PRIMARY CABLE – TR-XLP INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.345" XLP INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
1/0	1	16	14	1.075	1.175	1.305	1.425	.050	905	1.10
1/0	19	16	14	1.110	1.210	1.340	1.460	.050	935	1.07
2/0	19	20	14	1.155	1.255	1.385	1.505	.050	1040	.96
3/0	19	16	12	1.205	1.305	1.465	1.585	.050	1205	.83
4/0	19	20	12	1.260	1.360	1.520	1.640	.050	1365	.73
<b>.345" XLP INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
1/0	1	6	14	1.075	1.175	1.305	1.425	.050	790	1.27
1/0	19	6	14	1.110	1.210	1.340	1.460	.050	815	1.23
2/0	19	7	14	1.155	1.255	1.385	1.505	.050	885	1.13
3/0	19	9	14	1.205	1.305	1.435	1.555	.050	980	1.02
4/0	19	11	14	1.260	1.360	1.490	1.610	.050	1085	.92
250	37	13	14	1.335	1.435	1.565	1.745	.080	1250	.80
350	37	18	14	1.435	1.535	1.665	1.845	.080	1485	.67
500	37	16	12	1.565	1.685	1.845	2.025	.080	1885	.53
750	61	51	10	1.755	1.875	2.035	2.215	.080	2420	.41
1000	61	20	10	1.900	2.020	2.225	2.405	.080	3000	.33

Madison, WI

Mt. Pleasant, MI

Williston, ND

Kearney, NE

Moorhead, MN

Elkhart, IA

Pierre, SD

# CONDUCTOR

UNDERGROUND DISTRIBUTION PRIMARY CABLE – EPR INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.175" INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.653	.733	.880	.961	.050	485	2.15
2	7	10	14	.678	.758	.905	.986	.050	504	1.98
1	1	13	14	.685	.765	1.030	.993	.050	555	1.80
1	19	13	14	.718	.798	.910	1.026	.050	577	1.73
1/0	1	16	14	.720	.800	.945	1.028	.050	629	1.59
1/0	19	16	14	.748	.828	.980	1.056	.050	648	1.54
2/0	19	20	14	.790	.870	1.025	1.098	.050	745	1.34
3/0	19	16	12	.838	.918	1.105	1.146	.050	862	1.16
4/0	19	20	12	.893	.973	1.160	1.234	.050	1042	.96
<b>.220 INSULATION-JACKETED TYPE UD.P - 90°C - 133% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.745	.825	.970	1.053	.050	556	1.80
2	7	10	14	.770	.850	.995	1.078	.050	577	1.73
1	1	13	14	.778	.858	1.000	1.086	.050	628	1.59
1	19	13	14	.810	.890	1.030	1.118	.050	652	1.53
1/0	1	16	14	.813	.893	1.035	1.121	.050	705	1.42
1/0	19	16	14	.840	.920	1.070	1.148	.050	726	1.38
2/0	19	20	14	.883	.963	1.115	1.191	.050	826	1.21
3/0	19	16	12	.930	1.010	1.195	1.238	.050	947	1.06
4/0	19	20	12	.985	1.065	1.250	1.327	.050	1133	.88
<b>.175 INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.653	.733	.880	.961	.050	420	2.38
2	7	6	14	.678	.758	.905	.986	.050	435	2.30
1	1	6	14	.685	.765	.910	.993	.050	450	2.22
1	19	6	14	.718	.798	.940	1.026	.050	470	2.13
1/0	1	6	14	.720	.800	.945	1.028	.050	490	2.04
1/0	19	6	14	.748	.828	.980	1.056	.050	510	1.96
2/0	19	7	14	.790	.870	1.025	1.098	.050	575	1.74
3/0	19	9	14	.838	.918	1.075	1.146	.050	655	1.53
4/0	19	11	14	.893	.973	1.130	1.234	.050	760	1.32
250	37	13	14	.963	1.043	1.190	1.346	.050	890	1.12
350	37	18	14	1.068	1.168	1.330	1.396	.050	1175	.95
500	37	16	12	1.193	1.293	1.490	1.521	.060	1500	.67
750	61	15	10	1.383	1.483	1.725	1.798	.080	2055	.49
1000	61	20	10	1.530	1.630	1.910	1.988	.080	2515	.40



UNDERGROUND DISTRIBUTION PRIMARY CABLE – EPR INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.220" INSULATION-JACKETED TYPE UD.P - 90°C - 133% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.745	.825	.970	1.053	.050	480	2.10
2	7	6	14	.770	.850	.995	1.078	.050	500	2.00
1	1	6	14	.778	.858	1.000	1.086	.050	505	1.98
1	19	6	14	.810	.890	1.030	1.118	.050	535	1.87
1/0	1	6	14	.813	.893	1.035	1.121	.050	560	1.79
1/0	19	6	14	.840	.920	1.070	1.148	.050	585	1.71
2/0	19	7	14	.883	.963	1.115	1.191	.050	650	1.54
3/0	19	9	14	.930	1.010	1.165	1.238	.050	730	1.37
4/0	19	11	14	.985	1.065	1.220	1.327	.050	820	1.20
250	37	13	14	1.055	1.155	1.320	1.459	.050	950	1.05
350	37	18	14	1.158	1.258	1.420	1.486	.050	1200	.83
500	37	16	12	1.285	1.385	1.580	1.613	.080	1580	.63
750	61	15	10	1.475	1.575	1.815	1.891	.080	2120	.47
1000	61	20	10	1.623	1.753	2.000	2.110	.080	2700	.37
<b>25kv CLASS CABLE: .260 INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
2	1	10	14	.840	.920	1.050	1.170	.050	580	1.72
2	7	10	14	.865	.945	1.075	1.195	.050	605	1.65
1	1	13	14	.850	.930	1.080	1.158	.050	690	1.45
1	19	13	14	.880	.960	1.110	1.188	.050	714	1.40
1/0	1	16	14	.885	.965	1.115	1.193	.050	769	1.37
1/0	19	16	14	.910	.990	1.150	1.218	.050	799	1.32
2/0	19	20	14	.955	1.035	1.195	1.263	.050	894	1.17
3/0	19	16	12	1.003	1.083	1.315	1.311	.050	1018	.97
4/0	19	20	12	1.058	1.158	1.370	1.419	.050	1231	.84
<b>.260 INSULATION-JACKETED TYPE UD-P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
2	1	6	14	.840	.920	1.050	1.170	.050	535	1.87
2	7	6	14	.865	.945	1.075	1.195	.050	555	1.80
1	1	6	14	.850	.930	1.080	1.158	.050	575	1.74
1	19	6	14	.880	.960	1.110	1.188	.050	595	1.68
1/0	1	6	14	.885	.965	1.115	1.193	.050	615	1.63
1/0	19	6	14	.910	.990	1.150	1.218	.050	640	1.56
2/0	19	7	14	.955	1.035	1.195	1.263	.050	700	1.43
3/0	19	9	14	1.003	1.083	1.265	1.311	.050	815	1.23
4/0	19	11	14	1.058	1.158	1.320	1.419	.050	910	1.10
250	37	13	14	1.128	1.228	1.390	1.516	.050	1010	.99
350	37	18	14	1.230	1.330	1.490	1.558	.050	1230	.81
500	37	16	12	1.358	1.458	1.650	1.740	.080	1640	.61
750	61	51	10	1.548	1.648	1.865	1.963	.080	2190	.46
1000	61	20	10	1.693	1.823	2.050	2.180	.080	2745	.36

Madison, WI  
Moorhead, MN

Mt. Pleasant, MI  
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Williston, ND  
Pierre, SD

Kearney, NE

# CONDUCTOR

UNDERGROUND DISTRIBUTION PRIMARY CABLE – EPR INSULATION										
PHASE CONDUCTOR (ALUMINUM)		COPPER NEUTRAL		APPROXIMATE O.D. INCHES (CAN VARY BY MFR)				JACKET THICKNESS	APPROX. WEIGHT LB per 1000	FEET/LB
SIZE AWG OR kcmil	NO. OF WIRES	NO. OF WIRES	WIRE SIZE AWG	INSUL. +/- .030	INSUL. SHIELD +/- .050	NEUTRAL WIRES	JACKET	INCHES	WITH INSUL. JACKET	
<b>.345" INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - FULL NEUTRAL</b>										
1/0	1	16	14	1.060	1.160	1.305	1.405	.050	905	1.10
1/0	19	16	14	1.095	1.195	1.340	1.430	.050	935	1.07
2/0	19	20	14	1.140	1.214	1.385	1.475	.050	1040	.96
3/0	19	16	12	1.205	1.305	1.465	1.585	.050	1205	.83
4/0	19	20	12	1.245	1.345	1.520	1.610	.050	1365	.73
<b>.345" INSULATION-JACKETED TYPE UD.P - 90°C - 100% INSULATION LEVEL - ONE THIRD NEUTRAL</b>										
1/0	1	6	14	1.060	1.160	1.305	1.405	.050	790	1.27
1/0	19	6	14	1.095	1.195	1.340	1.430	.050	815	1.23
2/0	19	7	14	1.140	1.214	1.385	1.475	.050	885	1.13
3/0	19	9	14	1.205	1.305	1.435	1.555	.050	980	1.02
4/0	19	11	14	1.245	1.345	1.490	1.575	.050	1085	.92
250	37	13	14	1.300	1.400	1.565	1.705	.080	1250	.80
350	37	18	14	1.405	1.505	1.665	1.810	.080	1485	.67
500	37	16	12	1.530	1.630	1.845	2.000	.080	1885	.53
750	61	51	10	1.720	1.820	2.035	2.190	.080	2420	.41
1000	61	20	10	1.868	1.968	2.225	2.380	.080	3000	.33

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