

**SINGLE CORE,
ALUMINUM COMPRESSED, BLOCKED STRAND CONDUCTOR
PRIMARY UNDERGROUND DISTRIBUTION CABLE
35 kV, 100 % Insulation Level 345 Mils TR-XLPE, CN WB, LLDPE Jacket**

APPLICATION:

For use on single phase and three phase primary underground distribution systems operating at 35 kV phase to phase at 100% insulation level. Suitable for either direct burial or installation in ducts.

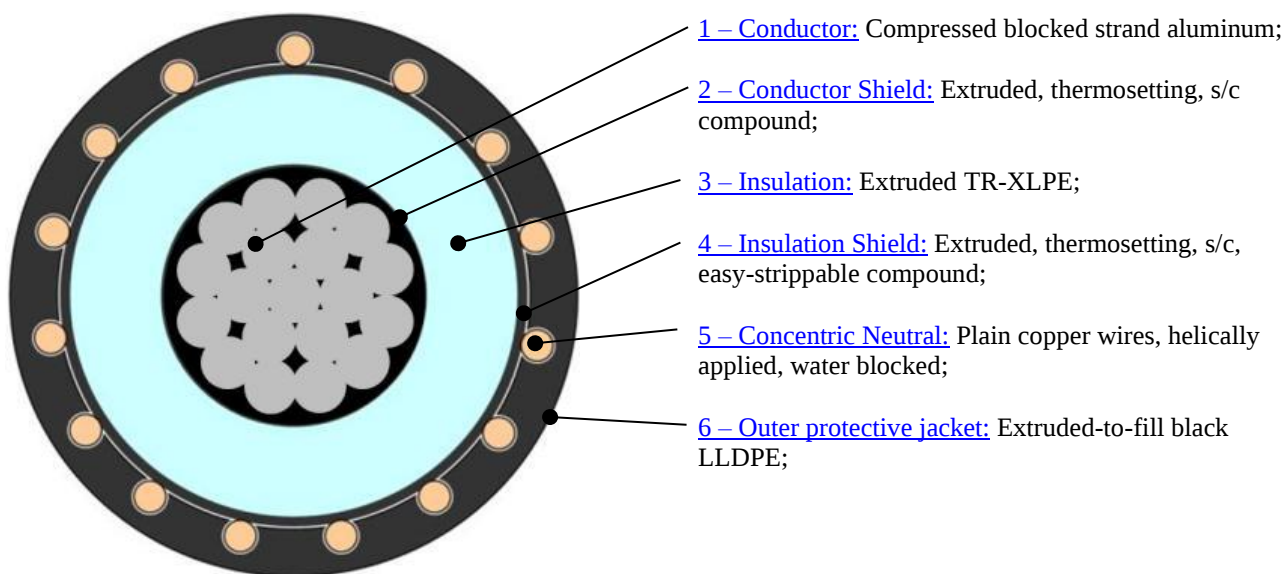
STANDARDS:

CAN/CSA-C68.5-2020 "Primary Shielded and Concentric Neutral Power Cables for Distribution Utilities"

ICEA S-94-649 Std. for "Concentric Neutral Cables Rated 5,000 – 46,000 V".

CONSTRUCTION: aluminum compressed, blocked strand conductor; single head triple extruded conductor shield, TR-XLPE (tree-retardant cross-linked polyethylene) insulation and easy strippable insulation shield, all dry nitrogen cured in one pass process; solid bare copper wires uniformly spaced around the cable as a concentric neutral conductor with the swelling tapes, which are located under and above the copper wires as a longitudinal water blocking barrier; black LLDPE Extruded-to fill jacket.

TYPICAL DESIGN DRAWING



Certificate number - 1745444



Synergy Cables Ltd.
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TEL 972-8-6809444, FAX 972-8-6890014
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TECHNICAL PARAMETERS

UD, TRXLPE Insulated, 35000 VOLTS, 100 % INSULATION LEVEL, JACKETED																
Catalog No.	Size AWG or kcmil	Actual diameter, mm	Thickness in mm (3)			Diameters in mm					Neutral No. x AWG Size	Earth-fault current kA/1s (5)	mm Minimum bending radius (6)	Approx. Net Wgt. kg/km	Direct Burial A	Ampacity (1) In Duct (2) A
			Insulation (min /max)	Insulation Shield (min/ max)	Jacket (min. / max.)	Insulation (4)		Insulation Shield		Overall Approx.						
						Min.	Max.	Min.	Max.							
Full Concentric Neutral water blocked																
1AXC61308YY	1/0	9.15	8.38/9.53	1.02/1.91	1.14/2.03	26.543	29.083	28.58	32.13	38.5	16x#14	4.3	≥ 310	1,355	201	174
Cable marking: ** SYNERGY CABLES LTD. 232338 1/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61310YY	2/0	10.4	8.38/9.53	1.02/1.91	1.14/2.03	27.686	30.226	29.72	33.27	40.0	20x#14	5.3	≥ 320	1,520	227	198
Cable marking: SYNERGY CABLES LTD. 232338 2/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61312YY	3/0	11.4	8.38/9.53	1.02/1.91	1.14/2.03	28.956	31.496	30.99	34.54	41.5	16x#12	6.8	≥ 330	1,750	257	223
Cable marking: SYNERGY CABLES LTD. 232338 3/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61314YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	43.5	20x#12	8.5	≥ 350	2,000	292	253
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61316YY	250	14.2	8.38/9.53	1.02/1.91	1.14/2.03	31.750	34.290	33.78	37.34	44.5	23x#12	9.8	≥ 355	2,195	320	281
Cable marking: SYNERGY CABLES LTD. 232338 250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61318YY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	49.5	21x#10	14.2	≥ 395	2,895	379	334
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61320304YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	53.5	30x#10	20.3	≥ 430	3,680	446	402
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
2/3 Concentric Neutral water blocked																
1AXC6130823YY	1/0	9.15	8.38/9.53	1.02/1.91	1.14/2.03	26.543	29.083	28.58	32.13	38.0	17x#16	2.9	≥ 305	1,230	201	174
Cable marking: SYNERGY CABLES LTD. 232338 1/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6131423YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.5	21x#14	5.6	≥ 340	1,760	292	253
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC61316163YY	250	14.2	8.38/9.53	1.02/1.91	1.14/2.03	31.750	34.290	33.78	37.34	44.5	16x#12	6.8	≥ 355	1,995	321	283
Cable marking: SYNERGY CABLES LTD. 232338 250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6131823YY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	48.5	22x#12	9.3	≥ 390	2,495	382	336
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6132023YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	53.5	20x#10	13.5	≥ 430	3,220	454	409
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6132423YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.678	48.90	52.58	64.5	31x#9	26.4	≥ 515	5,315	607	547
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6306323YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	69.5	31x#8	33.3	≥ 555	6,370	653	589
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1/2 Concentric Neutral water blocked																
1AXC613082YY	1/0	9.15	8.38/9.53	1.02/1.91	1.14/2.03	26.543	29.083	28.58	32.13	38.0	13x#16	2.2	≥ 305	1,180	200	174
Cable marking: SYNERGY CABLES LTD. 232338 1/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613102YY	2/0	10.4	8.38/9.53	1.02/1.91	1.14/2.03	27.686	30.226	29.72	33.27	40.0	10x#14	2.7	≥ 320	1,345	228	198
Cable marking: SYNERGY CABLES LTD. 232338 2/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613122YY	3/0	11.4	8.38/9.53	1.02/1.91	1.14/2.03	28.956	31.496	30.99	34.54	41.0	12x#14	3.2	≥ 330	1,485	258	224
Cable marking: SYNERGY CABLES LTD. 232338 3/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC6131412YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.5	16x#14	4.3	≥ 340	1,675	294	258
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613162YY	250	14.2	8.38/9.53	1.02/1.91	1.14/2.03	31.750	34.290	33.78	37.34	43.0	29x#16	4.9	≥ 345	1,780	321	283
Cable marking: SYNERGY CABLES LTD. 232338 250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613182YY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	48.5	17x#12	7.2	≥ 390	2,350	382	337
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613202YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	52.0	24x#12	10.2	≥ 415	2,915	457	402
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613222YY	750	24.2	8.38/9.53	1.40/2.29	1.78/3.05	42.48	44.958	45.21	48.77	58.5	22x#10	14.9	≥ 470	3,960	551	497
Cable marking: SYNERGY CABLES LTD. 232338 750 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613242YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.678	48.90	52.58	62.5	30x#10	20.3	≥ 500	4,850	614	555
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC630632YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	66.0	37x#10	25.0	≥ 530	5,670	664	599
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1/3 Concentric Neutral water blocked																
1AXC613083YY	1/0	9.15	8.38/9.53	1.02/1.91	1.14/2.03	26.543	29.083	28.58	32.13	38.0	9x#16	1.5	≥ 305	1,140	200	174
Cable marking: SYNERGY CABLES LTD. 232338 1/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																
1AXC613103YY	2/0	10.4	8.38/9.53	1.02/1.91	1.14/2.03	27.686	30.226	29.72	33.27	39.0	11x#16	1.8	≥ 310	1,255	228	197
Cable marking: SYNERGY CABLES LTD. 232338 2/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ε <YEAR> LTGG SUN RES CSA MARK																



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1AXC613123YY	3/0	11.4	8.38/9.53	1.02/1.91	1.14/2.03	28.956	31.496	30.99	34.54	40.0	14x#16	2.4	≥ 320	1,375	258	224
Cable marking: SYNERGY CABLES LTD. 232338 3/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61314112YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.5	11x#14	2.9	≥ 340	1,580	294	255
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613143YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.0	17x#16	2.9	≥ 335	1,545	293	254
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613163YY	250	14.2	8.38/9.53	1.02/1.91	1.14/2.03	31.750	34.290	33.78	37.34	43.0	20x#16	3.4	≥ 345	1,680	321	283
Cable marking: SYNERGY CABLES LTD. 232338 250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61318RY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	48.0	18x#14	4.8	≥ 385	2,135	384	338
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613183YY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	47.0	27x#16	4.5	≥ 375	2,080	384	337
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61320YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	51.5	25x#14	6.7	≥ 410	2,620	462	406
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61322YY	750	24.2	8.38/9.53	1.40/2.29	1.78/3.05	42.48	44.958	45.21	48.77	57.5	24x#12	10.2	≥ 460	3,555	560	506
Cable marking: SYNERGY CABLES LTD. 232338 750 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61324YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.768	48.90	52.58	61.5	31x#12	13.2	≥ 490	4,270	632	571
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC63063YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	68.0	24x#10	16.2	≥ 545	5,100	693	625
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC63123YY	1500	34.3	8.38/9.53	1.40/2.67	1.78/3.05	52.832	55.499	55.63	59.31	71.0	29x#10	19.6	≥ 570	5,870	734	678
Cable marking: SYNERGY CABLES LTD. 232338 1500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1/4 Concentric Neutral water blocked																
1AXC613144YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.0	13x#16	2.2	≥ 335	1,500	294	258
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613204YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	51.5	19x#14	5.1	≥ 410	2,510	465	409
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1/6 Concentric Neutral water blocked																
1AXC613106YY	2/0	10.4	8.38/9.53	1.02/1.91	1.14/2.03	27.686	30.226	29.72	33.27	39.0	6x#16	1.4	≥ 310	1,200	228	197
Cable marking: SYNERGY CABLES LTD. 232338 2/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613126YY	3/0	11.4	8.38/9.53	1.02/1.91	1.14/2.03	28.956	31.496	30.99	34.54	40.0	7x#16	1.2	≥ 320	1,300	259	224
Cable marking: SYNERGY CABLES LTD. 232338 3/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613146YY	4/0	13.1	8.38/9.53	1.02/1.91	1.14/2.03	30.353	32.893	32.39	35.94	42.0	9x#16	1.5	≥ 335	1,455	295	259
Cable marking: SYNERGY CABLES LTD. 232338 4/0 AWG AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613166YY	250	14.2	8.38/9.53	1.02/1.91	1.14/2.03	31.750	34.290	33.78	37.34	43.0	10x#16	1.7	≥ 345	1,565	322	279
Cable marking: SYNERGY CABLES LTD. 232338 250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613186YY	350	16.8	8.38/9.53	1.02/1.91	1.78/3.05	34.417	36.957	36.45	40.01	47.0	14x#16	2.4	≥ 375	1,935	386	340
Cable marking: SYNERGY CABLES LTD. 232338 350 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC61320RY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	51.5	13x#14	3.5	≥ 410	2,405	467	411
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC6132016YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	50.5	20x#16	3.4	≥ 405	2,360	467	411
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC6132216YY	750	24.2	8.38/9.53	1.40/2.29	1.78/3.05	42.48	44.958	45.21	48.77	56.5	19x#14	5.1	≥ 450	3,145	573	517
Cable marking: SYNERGY CABLES LTD. 232338 750 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613246YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.768	48.90	52.58	60.5	25x#14	6.7	≥ 485	3,780	656	593
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC6306316YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	64.5	20x#12	8.5	≥ 515	4,455	723	653
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC631236YY	1500	34.3	8.38/9.53	1.40/2.67	1.78/3.05	52.832	55.499	55.63	59.31	68.5	24x#12	10.2	≥ 550	5,115	771	696
Cable marking: SYNERGY CABLES LTD. 232338 1500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1/7 Concentric Neutral water blocked																
1AXC631237YY	1500	34.3	8.38/9.53	1.40/2.67	1.78/3.05	52.832	55.499	55.63	59.31	68.5	20x#12	8.5	≥ 550	5,000	781	705
Cable marking: SYNERGY CABLES LTD. 232338 1500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1/8 Concentric Neutral water blocked																
1AXC613208YY	500	20.1	8.38/9.53	1.02/1.91	1.78/3.05	37.592	40.132	39.62	43.18	50.5	15x#16	2.5	≥ 405	2,300	468	412
Cable marking: SYNERGY CABLES LTD. 232338 500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																
1AXC613228YY	750	24.2	8.38/9.53	1.40/2.29	1.78/3.05	42.48	44.958	45.21	48.77	56.0	22x#16	3.7	≥ 450	3,005	576	520
Cable marking: SYNERGY CABLES LTD. 232338 750 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ϵ <YEAR> LTGG SUN RES CSA MARK																



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1AXC6132481YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.768	48.90	52.58	60.0	29x#16	4.9	≥ 480	3,595	663	599
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1AXC6306381YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	64.0	23x#14	6.2	≥ 510	4,225	731	660
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1/10 Concentric Neutral water blocked																
1AXC63063192YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	64.0	19x#14	5.1	≥ 510	4,155	738	667
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1/12 Concentric Neutral water blocked																
1AXC6132212YY	750	24.2	8.38/9.53	1.40/2.29	1.78/3.05	42.48	44.958	45.21	48.77	56.0	15x#16	2.5	≥ 450	2,930	580	524
Cable marking: SYNERGY CABLES LTD. 232338 750 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1AXC6132412YY	1000	28.2	8.38/9.53	1.40/2.29	1.78/3.05	46.101	48.768	48.90	52.58	60.0	20x#16	3.4	≥ 480	3,500	669	604
Cable marking: SYNERGY CABLES LTD. 232338 1000 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1AXC63063R2YY	1250	31.5	8.38/9.53	1.40/2.29	1.78/3.05	49.784	52.451	52.58	56.26	64.0	16x#14	4.3	≥ 510	4,105	742	670
Cable marking: SYNERGY CABLES LTD. 232338 1250 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																
1AXC6312312YY	1500	34.3	8.38/9.53	1.40/2.67	1.78/3.05	52.832	55.499	55.63	59.31	67.5	19x#14	5.1	≥ 540	4,700	801	724
Cable marking: SYNERGY CABLES LTD. 232338 1500 kcmil AL WBC TRXLPE 90C 35KV 8.76MM ǂ <YEAR> LTGG SUN RES CSA MARK																

- (1) Ampacity values are calculated by CYME/CYMCAP program.
Ampacity calculation based upon operation at 90°C conductor, 20°C ambient, 36inch (3ft) burial depth, earth $\rho = 90$, insulation and shield $\rho = 350$, concentric neutrals bonded at both ends, 100 % load factor.
- (2) Buried in duct: 3 cables in touching-trefoil formation:
4/0 AWG - 500kcmil - in a 6" size common duct;
750kcmil - 1250kcmil - in a 8" size common duct;
1500kcmil - in 10" size common duct.
- (3) Minimum and maximum point thicknesses as per CAN/CSA-C68.5-2020 Standard;
- (4) Minimum and maximum insulation diameters as per Table C.2 of CAN/CSA-C68.5-2020 Standard.
- (5) Concentric Neutral temperature rise: from 80°C up to 200°C.
- (6) Recommended minimum bending radius as per Appendix E, Clause E.2 of ICEA S-94-649 standard
- Note: These limits may not be suitable for conduit bends, sheaves, or other curved surfaces around which the cable may be pulled under tension while being installed due to sidewall bearing pressure limits of the cable.
- ** Low-temperature marking: LTGG corresponds to -40°C.

Specification

SCOPE

This specification describes TRXLPE (tree-retardant cross-linked polyethylene) insulated power cables with concentric neutral for direct burial or installation in ducts. They are intended for use on single phase and three phase primary underground distribution systems not exceeding 35,000 volt phase to phase at maximum conductor temperatures of 90°C for continuous normal operation, 130°C for emergency overload conditions, and 250°C for short-circuit conditions.

CONDUCTOR

Class B compressed blocked strand aluminum as per Par. 4 of C68.5-20.

CONDUCTOR SHIELD

- The conductors shall be covered with a layer of extruded thermosetting semiconducting compound with a minimum point thickness in accordance with Table 4 of C68.5-20
- The extruded layer shall be firmly bonded to the insulation and shall meet the requirements of Par. 5 of C68.5-20.

INSULATION

- Directly over the conductor shield is applied a homogeneous wall of TR-XLPE (tree-retardant cross-linked polyethylene) material. The minimum point thickness shall be 8.32 mm and the maximum point thickness shall be 9.53 mm in accordance with Table 11 of C68.5-20.

- Properties of the insulation shall be in accordance with Par. 6 of C68.5-20.

INSULATION SHIELD

- Over the insulation applied an extruded thermosetting semiconducting compound conforming to Par. 7 of C68.5-20. It in intimate contact with the outer surface of the insulation and is easy stripping leaving no conducting particles or other residue on the insulation surface. This layer is legibly identified as being conducting by printing: "Semiconducting – remove when terminated or splicing".
- The thickness of this layer is in accordance with Table 12 of C68.5-20.
- The insulation shield meets the resistivity requirements of Par. 7.7 of C68.5-20.

CONCENTRIC NEUTRAL

- A concentric neutral consisting of annealed bare copper wires helically applied with uniform spacing between wires and two swellable tapes, applied under (semi-conducting) and over the concentric wires as the additional water-blocking barrier as per Par. 8.4 of C68.5-20.
- The minimum number and size of the neutral wires as specified in Par. 8.4. Tables H.1 & H.2 of C68.5-20 as appropriate (informative). Accordingly, other alternate standardized constructions to the ones given in the table overleaf are available. The length of lay shall be not less than 6 nor more than 10 times the diameter over the concentric wire layer.

JACKET

- An insulating linear low-density polyethylene (LLDPE) Extruded-To Fill jacket is applied Overall and meets the requirements of Table 18 of C68.5-20.
- Minimum and maximum point jacket thickness as specified in Table 21 of C68.5-20.

IDENTIFICATION

The outer jacket surface of the cable is suitably marked along its entire length by surface indented print, at a maximum interval of 1 m, with the following information: "SYNERGY CABLES LTD", size ("AWG" or "kcmil") and "CPT" or "SOL", "AL" or "CU", "WBS", "Blocked Strand" if only meets the requirements of Cl. 4.3 or "WBC", "Blocked Cable", if meets the requirements of Cl. 4.3 & 8.4 "TRXLPE", "90C", "35 KV", "8.76 mm", "lightning bolt", "Year of manufacture"; and "Low –temperature marking" in accordance with Table 25, "Sun Res", "CS/CSA Mark" and sequential length marking at regular intervals of 1m.

TESTS

Cables shall be tested in accordance with CSA C68.5-20. Certified Test Reports may be furnished, if requested prior to production of the cables.

CSA Certificate number – 1745444