



### C-L-X<sup>®</sup> Okozel<sup>®</sup> Type MC (Z)

**600V Control Cable—Aluminum Sheath**  
Multiple Copper Conductors/150°C Rating  
**For Cable Tray Use - Sunlight Resistant**



- A Bare, Stranded Copper Conductor
- B Okozel Insulation
- C Binder Tape
- D Marker Tape
- E Impervious, Continuous, Welded Corrugated, Aluminum C-L-X Sheath

#### Insulation

Okozel is Okonite's trade name for ETFE Fluoropolymer, a modified Ethylene Tetrafluoroethylene. Okozel is extremely rugged with excellent resistance to cut-through and abrasion. It is chemically inert and has low permeability. Okozel passes the IEEE 383 and UL vertical tray flame test. It is rated for 150°C (302°F conductor operating temperature for continuous use and retains all useful physical properties at temperatures down to -100°C (-148°F).

#### Specifications

**Conductors:** Bare copper per ASTM B-3, Class B stranded per ASTM B-8.

**Insulation:** Flame-retardant, moisture-resistant Okozel, a modified ETFE fluoropolymer.

**Conductor Identification:** Base colors with tracers in accordance with ICEA S-73-532, NEMA WC57 Method 1.

**Assembly:** Conductors cabled together in accordance with ICEA S-73-532, NEMA WC57 Section 5.1; with non-hygroscopic fillers as required; and a binder tape overall.

**Sheath:** Close fitting, impervious, continuous, welded, corrugated aluminum C-L-X in accordance with UL 1569. The sheath exceeds the grounding conductor requirements of Table 250.122 of the NEC. All C-L-X cables are rated "nonburning" under ASTM D635.

#### Applications

C-L-X Okozel control cables are recommended for use in or fossil fueled generating stations where continuity of service in critical circuits is of primary importance. These cables, which are rated 150°C in dry and 75°C in wet locations, offer reduced cable diameters through higher ampacities and thinner insulation walls than comparable XLPE or rubber constructions. C-L-X Okozel control cables are also recommended for high ambient temperature areas up to 150°C (302°F) in industrial applications or for cold weather installations to -65°C (-85°F).

#### Product Features

- Factory assembled "cable in conduit".
- 150°C continuous operating temperature.
- Cold installation temperature in excess of -65°C.
- Flame retardant - passes the vertical tray flame test requirements of IEEE 383 and 1202, UL 1569 and ICEA T-29-520(210,000 BTU/hr).
- Lower smoke emission.
- Chemically inert insulation-unaffected by typical acids, bases, solvents and cleaning agents, fuels and hydraulic fluids.
- High dielectric strength.
- Low dielectric constant.
- Smaller diameter and lighter weight permits more cables per tray.
- C-L-X enclosure permits installation in cable tray containing other voltages within a barrier separator.
- In addition, the aluminum CLX sheath exceeds the equipment grounding requirements of NEC Section 250.118 and 250.122, and can be used as the equipment grounding conductor.
- Provides excellent grounding safety.
- Excellent compression and impact resistance.
- No limit to number of bends in run.
- Lower installed system cost than conduit or EMT systems.
- UL Listed for cable tray use, and sunlight resistant.
- May be installed in ducts, plenums and other environmental air-handling spaces per NEC Articles 300.22 (b) and (c).
- Special designs available that are qualified for nuclear generating stations at 90°C in accordance with IEEE Standards 383-74 and 323-74.

# C-L-X® Okozel Type MC (Z) 600V Control Cable — Aluminum Sheath

Multiple Copper Conductor/150°C Rating  
For Cable Tray Use - Sunlight Resistant



## Product Data Section 4: Sheet 16

Catalog Number	Conductor Size AWG	Number of Conductors	Insulation Thickness (mils)	Core O.D. - Inches	Core O.D. - mm	C-L-X O.D. - Inches	C-L-X O.D. - mm	Cross-Sectional Area (sq. In.)	Approx. Net Weight lbs./1000'	Approx. Ship Weight lbs./1000'	Ampacity 150°C Dry (1)
548-76-1402	2	15	0.20	5.1	0.38	9.7	0.11	57	80	18	
548-76-1403	3		0.20	5.1	0.38	9.7	0.11	63	85	18	
548-76-1404	4		0.20	5.1	0.38	9.7	0.11	71	95	14	
548-76-1405	5	15	0.22	5.6	0.38	9.7	0.15	78	105	14	
548-76-1407	7		0.24	6.1	0.43	10.9	0.15	98	120	12	
548-76-1409	9		0.29	7.4	0.49	12.4	0.18	120	145	12	
548-76-1412	12	15	0.33	8.4	0.53	13.5	0.25	146	180	12	
548-76-1419	19		0.40	10.2	0.62	15.7	0.29	206	235	12	
548-76-1437	37		0.55	14.0	0.80	20.3	0.49	364	400	10	
548-76-1482	2	15	0.20	5.1	0.38	9.7	0.11	64	85	23	
548-76-1483	3		0.20	5.1	0.38	9.7	0.11	74	95	23	
548-76-1484	4		0.22	5.6	0.38	9.7	0.15	86	115	18	
548-76-1485	5	15	0.25	6.4	0.43	10.9	0.15	102	125	18	
548-76-1487	7		0.28	7.1	0.49	12.4	0.18	129	150	16	
548-76-1489	9		0.33	8.4	0.53	13.5	0.25	158	190	16	
548-76-1492	12	15	0.38	9.7	0.58	14.7	0.29	195	230	16	
548-76-1499	19		0.46	11.7	0.67	17.0	0.33	278	310	16	
548-76-1517	37		0.64	16.3	0.89	22.6	0.61	504	545	13	
548-76-1562	2	15	0.21	5.3	0.38	9.7	0.15	77	100	29	
548-76-1563	3		0.23	5.8	0.43	10.9	0.15	97	120	29	
548-76-1564	4		0.26	6.6	0.43	10.9	0.18	115	140	23	
548-76-1565	5	15	0.29	7.4	0.49	12.4	0.18	137	160	23	
548-76-1567	7		0.32	8.1	0.53	13.5	0.22	175	195	20	
548-76-1569	9		0.38	9.7	0.58	14.7	0.29	217	245	20	
548-76-1572	12	15	0.44	11.2	0.67	17.0	0.33	272	305	20	
548-76-1579	19		0.53	13.5	0.75	19.1	0.43	393	425	20	
548-76-1597	37		0.73	18.5	0.97	24.6	0.81	721	765	17	
548-76-1642	2	15	0.25	6.4	0.43	10.9	0.15	102	120	36	
548-76-1643	3		0.27	6.9	0.49	12.4	0.18	130	150	36	
548-76-1644	4		0.30	7.6	0.49	12.4	0.22	157	180	29	
548-76-1645	5	15	0.33	8.4	0.53	13.5	0.25	188	215	29	
548-76-1647	7		0.37	9.5	0.58	14.7	0.25	242	265	25	
548-76-1649	9		0.45	11.5	0.67	17.0	0.33	308	330	25	
548-76-1652	12	15	0.51	13.0	0.75	19.1	0.43	387	420	25	
548-76-1659	19		0.62	15.7	0.84	21.3	0.55	567	600	25	
548-76-1677	37		0.86	21.8	1.11	28.2	1.04	1057	1100	21	
548-76-1722	2	20	0.32	8.1	0.53	13.5	0.22	150	165	51	
548-76-1723	3		0.35	8.9	0.58	14.7	0.25	192	210	51	
548-76-1724	4		0.39	9.9	0.58	14.7	0.29	236	260	41	
548-76-1725	5	20	0.43	10.9	0.67	17.0	0.33	287	305	41	
548-76-1727	7		0.48	12.2	0.71	18.0	0.33	371	385	36	
548-76-1729	9		0.58	14.7	0.80	20.3	0.55	470	495	36	
548-76-1732	12		0.66	16.8	0.89	22.6	0.67	594	635	36	
548-76-1802	2	25	0.37	9.5	0.58	14.7	0.25	183	195	67	
548-76-1803	3		0.40	10.2	0.62	15.7	0.29	235	250	67	
548-76-1804	4		0.44	11.2	0.67	17.0	0.33	296	310	53	
548-76-1805	5	25	0.49	12.4	0.71	18.0	0.43	355	375	53	
548-76-1807	7		0.55	14.0	0.80	20.3	0.49	466	480	46	
548-76-1809	9		0.66	16.8	0.89	22.6	0.67	594	615	46	
548-76-1812	12		0.76	19.3	1.02	25.9	0.81	752	790	46	

(1) Ampacities are based on Table 310-15(B)(18) of the NEC for type Z conductors rated at a continuous operating temperature of 150°C (302°F) adjusted for a multiconductor cable in raceway in free air at an ambient temperature of 40°C (104°F).

Visit Okonite's web site, [www.okonite.com](http://www.okonite.com) for the most up to date dimensions.