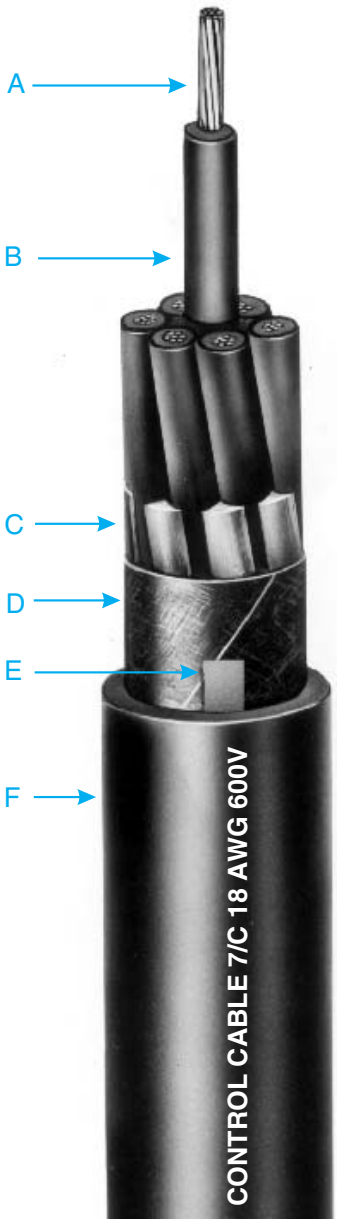
Okozel-Okozel® Control Cable

600 Volt Control Cable

Multiple Copper Conductors/150°C Rating
For Central Station Applications



A Bare, Stranded Copper Conductors
B Okozel Insulation
C Fiberglass Fillers, as required
D Binder Tape
E Marker Tape
F Okozel Jacket

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 is flame retardant and non-propagating, passes the IEEE 383 and UL vertical tray flame test, and is rated "non-burning" under ASTM D635. 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°F (-148°C).

Specifications

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

Insulation: Flame-retardant, radiation-resistant Okozel, a modified ETFE fluoropolymer per NEMA Std. HP-100.2.

Insulated conductor is rated "non-burning" under ASTM D635.

Conductor Identification: Base colors and tracers as shown on reverse of Data Sheet.

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

Jacket: Flame-retardant, fuel and chemical-resistant Okozel.

Cable meets or exceeds the requirements of IEEE Std. 383, Type Test of Class IE Electric Cables for Nuclear Power Generating Stations and is rated "non-burning" under ASTM D635.

Applications

Okozel control cables are recommended for use in fossil fueled generating stations where continuity of service in critical circuits is of primary importance. These conductors, which are rated 150°C in dry locations and 75°C in wet locations, permit smaller conduit use through higher ampacities and thinner insulation walls than comparable XLPE or rubber constructions.

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

- Passes the Vertical Tray Flame Test requirements of UL 1581 at 70,000 Btu/hr, ICEA T-29-520 210,000 Btu/Hr., and IEEE 1202-1991.
- 150°C continuous operating temperature.
- Low smoke emission.
- Low surface friction provides easier installation.
- Smaller and lighter diameter permits more cables per tray.
- Cold installation temperature in excess of -65°C.
- Exceptional abrasion resistance, will not cut or tear.
- Chemically inert-unaffected by typical acids, bases, solvents and cleaning agents, fuels and hydraulic fluids.
- High dielectric strength.
- Low dielectric constant.
- Special designs available that are qualified for nuclear generating stations at 90°C in accordance with IEEE Standards 383-74 and 323-74.

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Catalog Number	Conductor Size (AWG)	Number of Conductors	Insulation Thickness-mils	Jacket Thickness - mils	Jacket Thickness - mm	Approx. O.D. - Inches	Approx. O.D. - mm	Cross-Sectional Area (sq. in.)	Approx. Net Weight (lbs/1000')	Approx. Ship Weight (lbs/1000')	Ampacity 150°C Dry
203-76-3152	18 (7x) 0.82 mm²	2	15	15	0.76	0.20	5.0	0.03	28	39	18
203-76-3153		3		15	0.76	0.21	5.3	0.03	35	40	18
203-76-3154		4		15	0.76	0.23	5.8	0.04	45	49	14
203-76-3155		5		15	0.76	0.25	6.4	0.05	53	58	14
203-76-3157		7		15	0.76	0.27	7.0	0.06	70	74	12
203-76-3159		9		15	0.76	0.32	8.2	0.08	83	94	12
203-76-3162		12		15	0.76	0.37	9.3	0.10	112	123	12
203-76-3169		19		15	0.76	0.43	10.9	0.15	166	189	12
203-76-3187		37		20	0.89	0.60	15.2	0.28	321	345	10
203-76-3252	16 (7x) 1.31 mm²	2	15	15	0.76	0.22	5.6	0.04	37	42	23
203-76-3253		3		15	0.76	0.24	6.0	0.04	48	53	23
203-76-3254		4		15	0.76	0.26	6.6	0.05	61	66	18
203-76-3255		5		15	0.76	0.28	7.2	0.06	74	79	18
203-76-3257		7		15	0.76	0.31	7.9	0.08	97	102	16
203-76-3259		9		15	0.76	0.37	9.3	0.11	117	128	16
203-76-3262		12		15	0.76	0.42	10.5	0.14	158	181	16
203-76-3269		19		20	0.89	0.50	12.7	0.20	243	266	16
203-76-3287		37		20	0.89	0.68	17.3	0.37	459	491	13
203-76-3352	14 (7x) 2.08 mm²	2	15	15	0.76	0.25	6.3	0.05	53	57	29
203-76-3353		3		15	0.76	0.27	6.7	0.06	68	73	29
203-76-3354		4		15	0.76	0.29	7.4	0.07	87	92	23
203-76-3355		5		15	0.76	0.32	8.2	0.08	106	117	23
203-76-3357		7		15	0.76	0.35	9.0	0.10	140	151	20
203-76-3359		9		15	0.76	0.42	10.6	0.14	170	193	20
203-76-3362		12		20	0.89	0.48	12.3	0.18	236	259	20
203-76-3369		19		20	0.89	0.57	14.5	0.26	354	386	20
203-76-3387		37		25	1.27	0.79	20.1	0.49	683	738	17
203-76-3452	12 (7x) 3.31 mm²	2	15	15	0.76	0.28	7.2	0.06	74	79	36
203-76-3453		3		15	0.76	0.30	7.7	0.07	98	103	36
203-76-3454		4		15	0.76	0.34	8.5	0.09	126	137	29
203-76-3455		5		15	0.76	0.37	9.4	0.11	154	165	29
203-76-3457		7		15	0.76	0.41	10.3	0.13	206	229	25
203-76-3459		9		20	0.89	0.49	12.5	0.19	257	280	25
203-76-3462		12		20	0.89	0.56	14.2	0.25	347	371	25
203-76-3469		19		20	0.89	0.65	16.5	0.34	515	547	25
203-76-3487		37		25	1.27	0.92	23.3	0.66	1014	1069	21
203-76-3552	10 (7x) 5.26 mm²	2	20	15	0.76	0.36	9.1	0.10	115	127	51
203-76-3553		3		15	0.76	0.38	9.7	0.11	154	165	51
203-76-3554		4		15	0.76	0.42	10.7	0.14	200	223	41
203-76-3555		5		15	0.76	0.47	11.9	0.17	245	267	41
203-76-3557		7		20	0.89	0.53	13.4	0.22	317	340	36
203-76-3559		9		20	0.89	0.62	15.8	0.30	405	437	36
203-76-3562		12		20	0.89	0.71	18.0	0.39	550	582	36
203-76-3652	9 (7x) 6.63 mm²	2	25	15	0.76	0.40	10.2	0.13	146	169	67
203-76-3653		3		15	0.76	0.43	11.0	0.15	195	218	67
203-76-3654		4		20	0.89	0.49	12.4	0.19	260	283	53
203-76-3655		5		20	0.89	0.54	13.7	0.23	320	346	53
203-76-3657		7		20	0.89	0.59	15.1	0.28	423	455	46
203-76-3659		9		20	0.89	0.71	17.9	0.39	514	546	46
203-76-3662		12		25	1.27	0.82	20.7	0.52	710	749	46

Okonite's web site, www.okonite.com contains the most up to date information.

Optional Shields
Longitudinal corrugated copper shield (LCS) or aluminum-nylon-polyester tape shield and drain wire are also available. Contact your local sales representative for details.

Ampacities

Ampacities are based on Table 310.18 of the NEC for type Z conductors rated at a continuous operating temperature of 150°C (302°F) adjusted for a multi-conductor cable in raceway in free air at an ambient temperature of 40°C (104°F).

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Conductor Color Coding Sequence — Sizes 18 - 9 AWG

Conductor Number	Background or Base Color	Tracer Color
1	Black	
2	White	
3	Red	
4	Green	
5	Orange	
6	Blue	
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green

Color Coding per ICEA Method 1, E-1

Alternate color code shall be used for greater than 21 conductor count.

THE OKONITE COMPANY
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