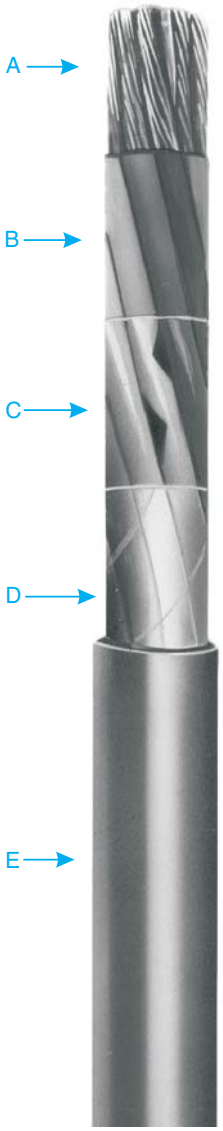
P-45

1000V Control Cable

Multiple Conductors /75°C Rating



A Bare Stranded Copper Conductor
B Insulation - Okolene - 30 mils
C Conductor Jacket Okoseal - 15 mils
D Binder Tape
E Outer Jacket - Okoseal

Insulation

Okolene® is Okonite's trade name for its natural polyethylene insulation with outstanding dielectric strength. The insulation thickness is 30 mils.

Jackets and Finishes

The 15 mil Okoseal® (PVC) jacket over the individual conductors provides additional mechanical strength. The color coding used in these cables shall be base colors and tracers as shown on reverse of Data Sheet. The Okoseal (PVC) outer jacket supplied with these cables has excellent resistance to oil and most chemicals.

Applications

P-45 control cables are recommended as economical, high quality, general purpose low voltage control cables, for use in wet or dry locations, ac or dc service, in conduit, duct, troughs, or direct burial installations.

Specifications

Conductors: Class "B" stranded bare copper, per ASTM B-8 (except #9 AWG which is Class "C" stranding).

Insulation: Okolene (polyethylene) meets or exceeds applicable requirements of ICEA S-73-532.

Jackets: Meet or exceed applicable requirements of ICEA S-73-532.

Assembled with fillers where necessary, non-hygroscopic tape and Okoseal jacket overall.

Product Features

- Color coded for permanent identification.
- Rated 75°C continuous operating temperature.
- Small diameter, light weight.
- Mechanically tough.
- Excellent moisture and heat resistance.
- Flexible, easy to handle.
- Outstanding resistance to most oils, acids and alkalies.
- High dielectric strength.
- Excellent electrical properties in wet or dry locations, ac or dc.

1000 Volt Control Cable

Multiple Conductors/75°C Rating

Okolene Insulation: 30 mils, Conductor Jacket; Okoseal, 15 mils

Catalog Number	Number of Conductors	Size AWG or MCM	No. of Strands	Outer Jacket Thickness-mils	Approx. O.D. - Inches	Approx. Net Weight (lbs/1000')	Approx. Ship Weight (lbs/1000')	Ampacity 75°C (1)
203-84-3301	Twin (2)	12	7	45	.29 x .48	97	120	25
203-84-3303	3	12	7	45	.51	138	161	25
203-84-3304	4	12	7	60	.59	192	216	20
203-84-3305	5	12	7	60	.64	236	268	20
203-84-3307	7	12	7	60	.70	302	334	18
203-84-3309	9	12	7	60	.81	388	427	18
203-84-3312	12	12	7	80	.96	527	582	13
203-84-3651	Twin (2)	9	19	60	.33 x .56	150	173	42
203-84-3653	3	9	19	60	.63	236	260	42
203-84-3654	4	9	19	60	.69	304	336	34
203-84-3655	5	9	19	60	.75	371	410	34
203-84-3657	7	9	19	60	.82	484	523	29
203-84-3659	9	9	19	80	1.00	664	728	29
203-84-3662	12	9	19	80	1.13	842	922	21

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

(1) Ampacities

Ampacities are based on 310.16 of the National Electrical Code for XHHW conductors rated 75°C, in a multi-conductor cable, at an ambient temperature of 30°C (86°F).

The ampacities shown apply to open runs of cable, installation in any approved raceway, direct burial in the earth, or as aerial cable on a messenger. Derating for more than three current carrying conductors within the cable is in accordance with NEC Section 310.15.B.2.

Conductor Color Coding Sequence — Sizes 12 - 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.

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