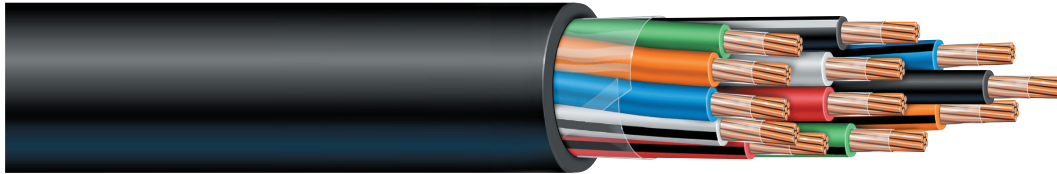


20-10 Control Cable

ICEA S-73-532 type with PE/PVC insulated conductors / 14 to 9 AWG
PVC jacket / 600 volt



Applications

These heavy duty cables are particularly suited for substation control functions, and can also be used for general purpose control circuits in industrial applications.

They are semi-flexible, suitable for AC or DC use in dry or wet locations and can be used as aerial cables, installed in conduit or troughs or they can be directly buried.

The cables are available at two rated voltages – 600 volt for general control purposes and for protective devices, and 1000 volt for use where high voltages are caused by breaking inductive circuits. The PE/PVC insulated conductors have excellent physical and electrical properties; the PVC jacket offers superior oil, chemical and moisture resistance.

Specifications and Ratings

- ICEA S-73-532 (NEMA WC-57)
- 1000 volt rating available

Shield Options:

- Corrugated longitudinally-applied
- .005 or .010 copper
- Flat helically-applied .005 or .010 copper
- Aluminum/mylar tape (with or without a drain wire)
- Longitudinally-applied copper or aluminum copolymer-bonded shield
- Copper braid (specify percentage of coverage for optimum EMI protection)

Design Parameters

CONDUCTORS: Bare soft copper Class B concentrically stranded per ASTM B 8.

INSULATION: Natural-colored polyethylene (PE) meeting ICEA S-73-532 Section 3 and suitable for use in wet or dry locations at 75°C.

CONDUCTOR JACKET: Colored polyvinylchloride (PVC) compound meeting ICEA S-73-532 Section 3. Minimum insulator/jacket thickness complies with ICEA S-73-532 Section 3.2.2.

CIRCUIT IDENTIFICATION: PVC jacket coded in accordance with ICEA S-73-532 Appendix E Method 1.

ASSEMBLY: Individual conductors are cabled, with non-hygroscopic fillers where necessary, to form a round compact core and wrapped with a binder. Two conductor versions are assembled flat parallel.

JACKET: Black PVC meeting ICEA S-73-532 Section 4.2.

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20-10 Control Cable

ICEA S-73-532 type with PE/PVC insulated conductors / 14 to 9 AWG / PVC jacket / 600 volt

Part Number	Conductor Number	Conductor AWG	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
72020	2	14	.020/.010 (.51/.25)	0.045 (1.1)	.235 x .375 (5.97 x 9.53)	63 (93)
72030	3	14	.020/.010 (.51/.25)	0.045 (1.1)	0.400 (10.2)	95 (141)
72040	4	14	.020/.010 (.51/.25)	0.045 (1.1)	0.435 (11.0)	117 (173)
72050	5	14	.020/.010 (.51/.25)	0.045 (1.1)	0.475 (12.1)	132 (195)
72070	7	14	.020/.010 (.51/.25)	0.045 (1.1)	0.515 (13.0)	174 (258)
72090	9	14	.020/.010 (.51/.25)	0.060 (1.1)	0.640 (16.3)	238 (352)
72120	12	14	.020/.010 (.51/.25)	0.060 (1.1)	0.710 (18.0)	305 (451)
73020	2	12	.020/.010 (.51/.25)	0.045 (1.1)	.255 x .415 (6.48 x 10.5)	85 (126)
73030	3	12	.020/.010 (.51/.25)	0.045 (1.1)	0.445 (11.3)	126 (186)
73040	4	12	.020/.010 (.51/.25)	0.045 (1.1)	0.485 (12.3)	158 (234)
73050	5	12	.020/.010 (.51/.25)	0.045 (1.1)	0.560 (14.2)	200 (296)
73070	7	12	.020/.010 (.51/.25)	0.060 (1.1)	0.610 (15.5)	259 (383)
73090	9	12	.020/.010 (.51/.25)	0.060 (1.1)	0.715 (18.2)	328 (485)
74120	12	12	.020/.010 (.51/.25)	0.060 (1.1)	0.795 (20.2)	423 (626)
74020	2	10	.020/.010 (.51/.25)	0.045 (1.1)	.280 x .460 (7.11 x 11.7)	116 (171)
74030	3	10	.020/.010 (.51/.25)	0.045 (1.1)	0.495 (12.6)	170 (252)
74040	4	10	.020/.010 (.51/.25)	0.060 (1.1)	0.580 (14.7)	235 (348)
74050	5	10	.020/.010 (.51/.25)	0.060 (1.1)	0.625 (15.9)	274 (406)
74070	7	10	.020/.010 (.51/.25)	0.060 (1.1)	0.680 (17.3)	364 (539)
74090	9	10	.020/.010 (.51/.25)	0.060 (1.1)	0.805 (20.4)	462 (684)
74120	12	10	.020/.010 (.51/.25)	0.08 (2.0)	0.935 (23.7)	638 (944)
75020	2	9	.020/.010 (.51/.25)	0.045 (1.1)	.29 x .49 (7.4 x 12.4)	132 (195)
75030	3	9	.020/.010 (.51/.25)	0.045 (1.1)	0.520 (13.2)	188 (278)
75040	4	9	.020/.010 (.51/.25)	0.060 (1.1)	0.600 (15.2)	258 (382)
75050	5	9	.020/.010 (.51/.25)	0.060 (1.1)	0.660 (16.8)	313 (463)
75070	7	9	.020/.010 (.51/.25)	0.060 (1.1)	0.720 (18.3)	418 (619)
75090	9	9	.020/.010 (.51/.25)	0.060 (1.1)	0.845 (21.5)	530 (784)
75120	12	9	.020/.010 (.51/.25)	0.08 (2.0)	0.985 (25.0)	731 (1082)

Optional features available are: 1) Flexible stranded conductors; 2) Tin-coated copper conductors per ASTM B33;

3) For metering installations where insulated conductors are subject to sunlight degradations, these cables can be jacketed with special UV-resistant compounds.

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

Consult factory for a variety of alternate constructions for specific applications.

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