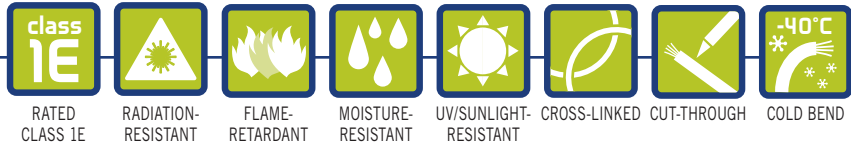


ULTROL® 60+ SIS Switchboard Wire Class B

SPEC 100-60
May, 2013

Class 1E Nuclear

600 V, 90°C, VW-1, UL Type SIS and Type SIS/XHHW-2



Product Construction

1. Conductor:

- 18 AWG thru 1000 kcmil tinned annealed copper per ASTM B33; Class B stranding per ASTM B8

2. Insulation:

- Flame-retardant, heat-, moisture-, sunlight- and radiation-resistant, thermoset ULTRROL® 60+ Cross-linked Polyethylene (FR-XLPE)
- Color code: Gray

Print:

- For 18 AWG & 16 AWG:
GENERAL CABLE (WC) ULTRROL® 60+ 1/C
XXAWG COPPER FR-XLPE (UL) TYPE SIS
600 V 90°C VW-1 NUCLEAR DAY MONTH
YEAR
- For 14 AWG thru 4/0 AWG:
GENERAL CABLE (WC) ULTRROL® 60+ 1/C
XXAWG COPPER FR-XLPE (UL) TYPE SIS/
XHHW-2 600 V 90°C VW-1 NUCLEAR DAY
MONTH YEAR
Note: Sizes 1/0 AWG & larger include:
TRACEABILITY NUMBER & SEQUENTIAL
FOOTAGE MARK
- For 250 kcmil thru 1000 kcmil:
GENERAL CABLE (WC) ULTRROL® 60+ 1/C
XXXKCMIL COPPER FR-XLPE (UL) TYPE
XHHW-2 600 V 90°C VW-1 NUCLEAR DAY
MONTH YEAR TRACEABILITY NUMBER
SEQUENTIAL FOOTAGE MARK

Options:

- Conductor stranding
- ISO Metric conductor
- Colored insulation

Applications:

- ULTRROL® 60+ SIS is a 600 V single insulated conductor, thermoset, Class 1E rated switchboard wire
- For use in Class 1E low-voltage applications in operation and interconnection of protective devices where optimum performance is required and where flame retardancy is critical

Features:

- Rated at 90°C wet or dry
- Fully traceable
- Qualified for 60-year service life
- Gamma and beta radiation resistant (up to 350 megarads)
- Submergence operability
- Long-term thermal endurance and superior electricals
- Excellent mechanical cut-through properties
- Long-term moisture and radiation stability
- Free stripping for ease of termination
- Meets cold bend test at -40°C

Industry Compliances:

- Class 1E Qualified in accordance with IEEE 323-1974/2003 and IEEE 383-1974/2003
- ICEA S-95-658
- UL 44 SIS/XHHW-2

Flame Test Compliances:

- IEEE 383:1974
- IEEE 383:2003
- ICEA T-29-520
- IEEE 1202/FT4-1991, Aged & Unaged
- VW-1

Other:

- Quality assurance program in accordance with NRC 10CFR50 Appendix B
- ANSI N45.2
- ASME NQA-1
- NIAC
- NUPIC

Packaging:

- Material to be shipped on non-returnable wooden reels

ULTROL[®] 60+ SIS Switchboard Wire Class B

Class 1E Nuclear

600 V, 90°C, VW-1, UL Type SIS and Type SIS/XHHW-2



CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
10060.18.1	18	7/.0152	0.030	0.76	0.108	2.69	5	8	10	15
10060.16.1	16	7/.0192	0.030	0.76	0.118	2.95	8	12	14	21
10060.14.1	14	7/.0242	0.030	0.76	0.133	3.33	13	19	20	30
10060.12.1	12	7/.0305	0.030	0.76	0.152	3.81	20	30	28	42
10060.10.1	10	7/.0385	0.030	0.76	0.175	4.39	32	48	42	63
10060.8.1	8	7/.0486	0.045	1.14	0.236	5.92	51	76	71	105
10060.6.1	6	7/.0612	0.045	1.14	0.273	6.86	81	121	104	155
10060.4.1	4	7/.0772	0.045	1.14	0.320	8.05	129	192	158	235
10060.2.1	2	7/.0974	0.045	1.14	0.379	9.55	205	305	242	361
10060.1.1	1	19/.0664	0.055	1.40	0.437	11.0	258	384	305	453
10060.1/0.1	1/0	19/.0745	0.055	1.40	0.476	12.0	326	485	378	563
10060.2/0.1	2/0	19/.0837	0.055	1.40	0.521	13.2	411	612	470	700
10060.3/0.1	3/0	19/.0940	0.055	1.40	0.571	14.4	518	771	584	870
10060.4/0.1	4/0	19/.1055	0.055	1.40	0.627	15.9	653	972	728	1083
10060.250.1	250	37/.0822	0.065	1.65	0.695	17.6	772	1149	865	1287
10060.350.1	350	37/.0973	0.065	1.65	0.798	20.2	1081	1609	1192	1773
10060.500.1	500	37/.1162	0.065	1.65	0.927	23.4	1544	2297	1678	2497
10060.750.1	750	61/.1109	0.080	2.03	1.137	28.8	2316	3446	2507	3731
10060.1000.1	1000	61/.1280	0.080	2.03	1.287	32.6	3088	4595	3311	4926

Dimensions and weights are nominal; subject to industry tolerances.