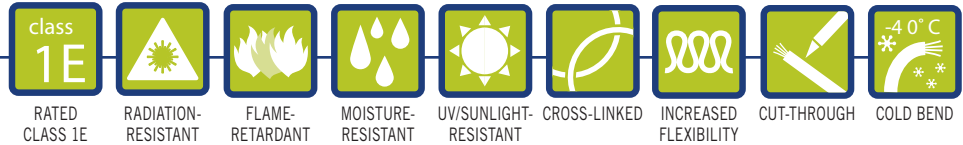


ULTROL® 60+ SIS Switchboard Wire Class K & H

SPEC 125-60
May, 2023

Class 1E Nuclear

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



Product Construction

1. Conductor:

- 18 AWG thru 10 AWG tinned annealed copper per ASTM B33; Class K stranding per ASTM B174
- 8 AWG thru 1000 kcmil tinned annealed copper per ASTM B33; Class H stranding per ASTM B173

2. Insulation:

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

Print:

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

Options:

- Conductor stranding
- ISO Metric conductor
- Colored insulation

Applications:

- ULTROL® 60+ SIS is a 600 V flexible, 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

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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
12560.18.1	18	16/.010	0.030	0.76	0.108	2.69	5	8	10	15
12560.16.1	16	26/.010	0.030	0.76	0.119	2.97	8	12	14	21
12560.14.1	14	41/.010	0.030	0.76	0.133	3.33	13	19	19	28
12560.12.1	12	65/.010	0.030	0.76	0.150	3.76	20	30	28	42
12560.10.1	10	105/.010	0.030	0.76	0.174	4.37	33	50	42	63
12560.8.1	8	133/.0111	0.045	1.14	0.257	6.45	52	77	73	109
12560.6.1	6	133/.0140	0.045	1.14	0.299	7.52	82	122	109	162
12560.4.1	4	133/.0177	0.045	1.14	0.353	8.89	132	196	165	245
12560.2.1	2	133/.0223	0.045	1.14	0.420	10.6	208	310	250	372
12560.1.1	1	259/.0180	0.055	1.40	0.476	12.0	266	396	320	476
12560.1/0.1	1/0	259/.0202	0.055	1.40	0.520	13.1	344	512	393	585
12560.2/0.1	2/0	259/.0227	0.055	1.40	0.571	14.4	422	628	491	730
12560.3/0.1	3/0	259/.0255	0.055	1.40	0.628	15.9	533	793	611	909
12560.4/0.1	4/0	259/.0286	0.055	1.40	0.714	18.1	670	997	759	1129
12560.250.1	250	427/.0242	0.065	1.65	0.761	19.2	795	1183	903	1344
12560.350.1	350	427/.0286	0.065	1.65	0.874	22.1	1110	1652	1239	1844
12560.500.1	500	427/.0342	0.065	1.65	1.034	26.2	1590	2366	1751	2605
12560.750.1	750	703/.0327	0.080	2.03	1.286	32.6	2410	3586	2644	3935
12560.1000.1	1000	703/.0377	0.080	2.03	1.458	36.9	3205	4769	3480	5178

Dimensions and weights are nominal; subject to industry tolerances.