ULTROL® 60+ SIS Switchboard Wire Class K & H

Class 1E Nuclear

600 V, 90°C, UL VW-1, Flexible, UL Type SIS and Type SIS/XHHW-2/RW90

SAFETY RELATED | RADIATION-RESISTANT | FLAME-RETARDANT | MOISTURE RESISTANT | UV/SUNLIGHT-RESISTANT | CROSS-LINKED | INCREASED FLEXIBILITY | CUT-THROUGH | COLD BEND

Product Construction

1. Conductor:
- 18 AWG thru 10 AWG tinned annealed copper per ASTM B33; Class K stranding per ASTM B1748
- 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 (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 (WC) ULTROL® 60+ 1/C XXAWG COPPER FR-XLPE (UL) TYPE SIS/ XHHW-2 600V 90C -40°C VW-1 NUCLEAR DAY/ MONTH/YEAR
  Note - Sizes 1/0AWG & larger include: TRACEABILITY NUMBER SEQUENTIAL FOOTAGE
- For 250 kcmil thru 1000 kcmil:
  PRYSMIAN (WC) ULTROL® 60+ 1/C XXXKCMIL COPPER FR-XLPE (UL) TYPE XHHW-2 600V 90C -40°C 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 single conductor, thermoset insulated wire for use in Safety or Non-Safety Related switchboard and internal control panel wiring
- For use in Safety Related lead wire assemblies interconnecting pressure transmitters, switches, and sensors to control equipment where flame retardancy and radiation resistance 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 and impact test at -40°C

Industry Compliances:
- Class 1E Qualified in accordance with IEEE 323-1974/2003 and IEEE 383-1974/2003/2015 and IEEE 383-1974/2003
- ICEA S-95-658
- UL 44 SIS/XHHW-2/RW90

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+ ADVANCING NUCLEAR POWER

ULTROL® 60+ SIS Switchboard Wire
Class K & H

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600 V, 90°C, UL VW-1, Flexible, UL Type SIS and Type SIS/XHHW-2/RW90

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	Lb/ 1000 Ft	kg/km
12560.18.1	18	16/.010	0.030	0.76	0.107	2.71	5	7	10	15
12560.16.1	16	26/.010	0.030	0.76	0.117	2.97	8	12	13	19
12560.14.1	14	41/.010	0.030	0.76	0.132	3.35	13	19	19	28
12560.12.1	12	65/.010	0.030	0.76	0.155	3.93	20	30	28	42
12560.10.1	10	105/.010	0.030	0.76	0.172	4.37	33	49	42	63
12560.8.1	8	133/.0108	0.045	1.14	0.248	6.30	49	73	71	105
12560.6.1	6	133/.0142	0.045	1.14	0.299	7.59	82	122	111	165
12560.4.1	4	133/.0179	0.045	1.14	0.348	8.84	132	196	166	247
12560.2.1	2	133/.0223	0.045	1.14	0.423	10.70	210	312	256	381
12560.1.1	1	259/.0180	0.055	1.40	0.476	12.00	266	396	320	476
12560.1/0.1	1/0	259/.0201	0.055	1.40	0.528	13.40	334	497	395	587
12560.2/0.1	2/0	259/.0226	0.055	1.40	0.574	14.60	422	628	491	730
12560.3/0.1	3/0	259/.0253	0.055	1.40	0.634	16.10	523	778	602	896
12560.4/0.1	4/0	259/.0286	0.055	1.40	0.694	17.60	659	981	746	1110
12560.250.1	250	427/.0242	0.065	1.65	0.761	19.30	795	1183	903	1344
12560.350.1	350	427/.0286	0.065	1.65	0.874	22.10	1110	1652	1239	1844
12560.500.1	500	427/.0342	0.065	1.65	1.034	26.20	1590	2366	1751	2605
12560.750.1	750	703/.0327	0.080	2.03	1.286	32.60	2410	3586	2644	3935
12560.1000.1	1000	703/.0377	0.080	2.03	1.458	37.00	3205	4769	3480	5178

Dimensions and weights are nominal; subject to industry tolerances.