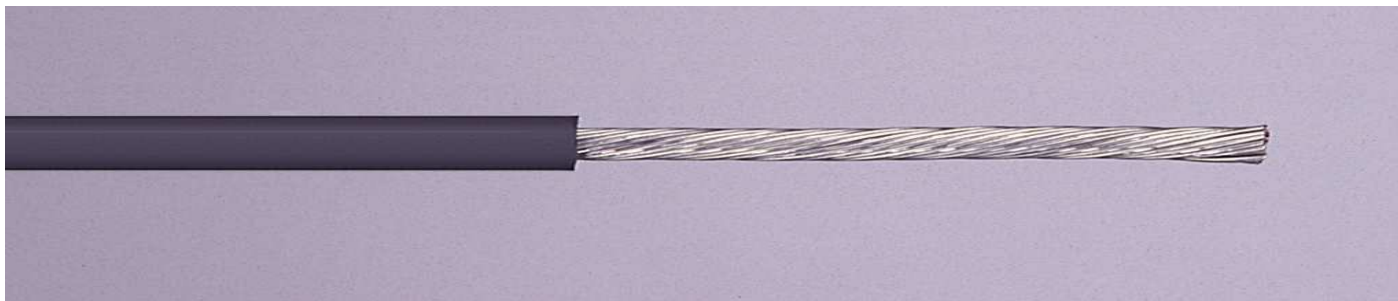


Ultrol® SIS Switchboard Wire, Class 1E Nuclear

600V, 90°C, VW-1, Flexible Class K & H, SIS Type and SIS/XHHW Type



Product Construction:

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

Insulation:

- Flame-retardant, heat, moisture and radiation resistant, thermoset Ultrol® Cross-Linked Polyethylene (FR-XLPE)
- Color code: Gray

Print:

- For 18 AWG & 16 AWG:
GENERAL CABLE BRAND REX
BRAND (WC) ULTROL 1/C XXAWG
COPPER FR-XLPE SIS TYPE 600V 90°C
VW-1 NUCLEAR YEAR OF MFG
- For 14 AWG thru 4/0 AWG:
GENERAL CABLE BRAND REX
BRAND (WC) ULTROL 1/C XXAWG
COPPER FR-XLPE SIS/XHHW TYPE
600V 90°C VW-1 NUCLEAR YEAR OF
MFG
Note: Sizes 1/0 AWG & larger include:
TRACEABILITY NUMBER &
SEQUENTIAL FOOTAGE MARK
- For 250 kcmil thru 1000 kcmil:
GENERAL CABLE BRAND REX
BRAND (WC) ULTROL 1/C XXXKCMIL
COPPER FR-XLPE RHH-RHW TYPE
600V 90°C VW-1 NUCLEAR YEAR OF
MFG TRACEABILITY NUMBER
SEQUENTIAL FOOTAGE MARK

Options:

- Conductor stranding
- Bare copper
- Full-colored insulation
- UL Listed SIS/XHHW for sizes 14 AWG thru 4/0 AWG
- UL Listed XHHW for kcmil sizes

Applications:

- Ultrol SIS is a 600V flexible single conductor, insulated, 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.

Features:

- Rated at 90°C
- Fully traceable
- Qualified for 40-year service life
- Radiation resistant (up to 200 megarads)
- Long-term thermal endurance and superior electricals
- Excellent mechanical cut through properties.
- Long-term moisture and radiation stability
- Free stripping for ease of termination

Industry Compliances:

- Class 1E Qualified in accordance with IEEE 323-1974 and IEEE 383-1974
- ANSI N45.2
- ICEA S-95-658 (formerly ICEA S-66-524 & S-19-81)

Flame Test Compliances:

- IEEE 383 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)
- UL VW-1

Other:

- Quality assurance program in accordance with NRC 10CFR50 Appendix B
- ASME NQA-1:2000
- NUPIC

Packaging:

- Material to be shipped on non-returnable wooden reels

Ultrol® SIS Switchboard Wire, Class 1E Nuclear

600V, 90°C, VW-1, Flexible Class K & H, SIS Type and SIS/XHHW Type

ULTROL® SIS SWITCHBOARD WIRE, CLASS 1E NUCLEAR, 600V, 90°C, VW-1, FLEXIBLE CLASS K & H, SIS TYPE AND SIS/XHHW TYPE

Catalog Number	Cond. Size (AWG)	Cond. Strand	Min. Avg. Insulation Thickness		Nom. Cable Diameter		Copper Weight		Net Weight	
			Inches	mm	Inches	mm	lbs/1000 ft.	kg/km	lbs/1000 ft.	kg/km
327130.08	18	16/.010	0.030	0.76	0.108	2.69	5	7	9	14
327140.08	16	26/.010	0.030	0.76	0.119	2.97	8	12	13	19
327150.08	14	41/.010	0.030	0.76	0.133	3.33	13	19	18	27
327160.08	12	65/.010	0.030	0.76	0.150	3.76	20	30	27	40
327170.08	10	105/.010	0.030	0.76	0.174	4.37	33	50	41	61
327180.08	8	133/.0111	0.045	1.14	0.257	6.45	52	77	70	105
327190.08	6	133/.0140	0.045	1.14	0.299	7.52	82	122	105	156
327200.08	4	133/.0177	0.045	1.14	0.353	8.89	132	196	160	239
327210.08	2	133/.0223	0.045	1.14	0.420	10.6	208	310	244	363
327220.08	1	259/.0180	0.055	1.40	0.476	12.0	266	396	312	465
327230.08	1/0	259/.0202	0.055	1.40	0.520	13.1	334	497	386	574
327240.08	2/0	259/.0227	0.055	1.40	0.571	14.4	422	628	481	715
327250.08	3/0	259/.0255	0.055	1.40	0.628	15.9	533	793	600	892
327260.08	4/0	259/.0286	0.055	1.40	0.714	18.1	670	997	746	1110
379310.08	250	427/.0242	0.065	1.65	0.761	19.2	795	1183	888	1321
379320.08	350	427/.0286	0.065	1.65	0.874	22.1	1110	1652	1221	1817
379330.08	500	427/.0342	0.065	1.65	1.034	26.2	1590	2366	1728	2572
379340.08	750	703/.0327	0.080	2.03	1.286	32.6	2410	3586	2611	3886
379350.08	1000	703/.0377	0.080	2.03	1.458	36.9	3205	4769	3441	5120

Dimensions and weights are subject to industry tolerance.