

ULTROL® 60+ Power Cable Dual Wall, Single Conductor



Class 1E Nuclear

600 V, 90°C, VW-1, UL Type RHH/RHW-2



SAFETY
RELATED



RADIATION-
RESISTANT



FLAME-
RETARDANT



MOISTURE
RESISTANT



UV/SUNLIGHT-
RESISTANT



CROSS-
LINKED



OIL-
RESISTANT



CUT-
THROUGH



COLD
BEND



HEAVY
WALL

Product Construction



1. Conductor:

- 14 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 ULTROL® 60+ Cross-linked Polyethylene (FR-XLPE)
- Color code: White

3. Jacket:

- Flame-retardant, moisture-, oil-, sunlight and radiation-resistant, thermoset ULTROL® 60+ Cross-linked Polyolefin (XLPO)
- Color code: Black

Print:

- For 14 AWG thru 4/0 AWG:
PRYSMIAN (WC) ULTROL® 60+ 1/C XXAWG COPPER FR-XLPE (UL) TYPE RHH/RHW-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 (WC) ULTROL® 60+ 1/C XXXKCMIL COPPER FR-XLPE (UL) TYPE RHH/RHW-2 600V 90C SUN RES VW-1 NUCLEAR DAY/MONTH/YEAR
TRACEABILITY NUMBER SEQUENTIAL
FOOTAGE

Options:

- Conductor stranding
- ISO Metric conductor

Applications:

- ULTROL® 60+ power cable is a 600 V dual wall, insulated single conductor, thermoset, Class 1E rated wire construction specifically designed for safety-related or non-safety-related applications in nuclear generating stations and where additional jacket protection is required
- For use in Class 1E low-voltage power and lighting functions where optimum performance is required and where flame retardancy and radiation resistance is critical
- May be installed in trays, conduit or ducts

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 383-1974/2003/2015
- ICEA S-95-658
- UL 44 RHH/RHW-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		Minimum Avg. Jacket Thickness		Nominal Cable O.D.		Copper Weight		Net Weight	
			Inches	mm	Inches	mm	Inches	mm	Lbs/1000 Ft	kg/km	Lb/1000 Ft	kg/km
17560.14.1	14	7/0242	0.030	0.76	0.015	0.38	0.165	4.19	13	19	24	36
17560.12.1	12	7/0305	0.030	0.76	0.015	0.38	0.184	4.67	20	30	33	49
17560.10.1	10	7/0385	0.030	0.76	0.015	0.38	0.207	5.26	32	48	47	70
17560.8.1	8	7/0473	0.045	1.14	0.015	0.38	0.268	6.81	48	71	75	111
17560.6.1	6	7/0597	0.045	1.14	0.030	0.76	0.334	8.48	77	114	118	175
17560.4.1	4	7/0772	0.045	1.14	0.030	0.76	0.383	9.73	129	192	180	267
17560.2.1	2	7/0974	0.045	1.14	0.030	0.76	0.442	11.20	205	305	267	397
17560.1.1	1	19/0664	0.055	1.40	0.045	1.14	0.530	13.50	258	384	347	516
17560.1/0.1	1/0	19/0745	0.055	1.40	0.045	1.14	0.569	14.50	326	485	424	631
17560.2/0.1	2/0	19/0820	0.055	1.40	0.045	1.14	0.610	15.50	395	587	503	748
17560.3/0.1	3/0	19/0940	0.055	1.40	0.045	1.14	0.664	16.90	518	771	640	952
17560.4/0.1	4/0	19/1055	0.055	1.40	0.045	1.14	0.720	18.30	653	972	788	1172
17560.250.1	250	37/0822	0.065	1.65	0.065	1.65	0.829	21.10	772	1149	962	1432
17560.350.1	350	37/0973	0.065	1.65	0.065	1.65	0.932	23.70	1081	1609	1302	1937
17560.500.1	500	37/1162	0.065	1.65	0.065	1.65	1.061	27.00	1544	2297	1804	2685
17560.750.1	750	61/1109	0.080	2.03	0.065	1.65	1.271	32.30	2316	3446	2661	3960
17560.1000.1	1000	61/1280	0.080	2.03	0.065	1.65	1.421	36.10	3088	4595	3483	5183

Dimensions and weights are nominal; subject to industry tolerances.

