

ULTROL® 60+ Power Cable Heavy Wall, Single Conductor

Class 1E Nuclear

600 V, 90°C, VW-1, UL Type RHH/RHW-2

SPEC 150-60
May, 2013



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: Black

Print:

- For 14 AWG thru 4/0 AWG:
GENERAL CABLE (WC) ULTROL® 60+ 1/C
XXAWG COPPER FR-XLPE (UL) TYPE
RHH/RHW-2 600 V 90°C VW-1 NUCLEAR
DAY MONTH YEAR
Note: Sizes 1/0 AWG & larger include:
SUN RES FOR CT USE, TRACEABILITY
NUMBER & SEQUENTIAL FOOTAGE MARK
- For 250 kcmil thru 1000 kcmil:
GENERAL CABLE (WC) ULTROL® 60+ 1/C
XXXKCMIL COPPER FR-XLPE (UL) TYPE
RHH/RHW-2 600 V 90°C SUN RES FOR CT
USE VW-1 NUCLEAR DAY MONTH YEAR
TRACEABILITY NUMBER SEQUENTIAL
FOOTAGE MARK

Options:

- Conductor stranding
- ISO Metric conductor
- Colored insulation

Applications:

- ULTROL® 60+ power cable is a 600 V heavy wall, insulated single conductor, thermoset, Class 1E rated wire construction specifically designed for applications in nuclear generating stations and where additional jacket protection is not required
- For use in Class 1E low-voltage power and lighting functions where optimum performance is required and where flame retardancy is critical
- May be installed in trays, conduit, ducts, or direct buried

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 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		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
15060.14.1	14	7/.0242	0.045	1.14	0.163	4.14	13	19	23	35
15060.12.1	12	7/.0305	0.045	1.14	0.182	4.62	20	30	34	51
15060.10.1	10	7/.0385	0.045	1.14	0.205	5.21	32	48	48	72
15060.8.1	8	7/.0486	0.060	1.52	0.266	6.76	51	76	78	116
15060.6.1	6	7/.0612	0.060	1.52	0.303	7.70	81	121	114	169
15060.4.1	4	7/.0772	0.060	1.52	0.350	8.89	129	192	169	251
15060.2.1	2	7/.0974	0.060	1.52	0.409	10.4	205	305	254	378
15060.1.1	1	19/.0664	0.080	2.03	0.488	12.4	258	384	329	490
15060.1/0.1	1/0	19/.0745	0.080	2.03	0.527	13.4	326	485	404	601
15060.2/0.1	2/0	19/.0837	0.080	2.03	0.572	14.5	411	612	498	742
15060.3/0.1	3/0	19/.0940	0.080	2.03	0.622	15.8	518	771	615	915
15060.4/0.1	4/0	19/.1055	0.080	2.03	0.678	17.2	653	972	761	1133
15060.250.1	250	37/.0822	0.095	2.41	0.754	19.2	772	1149	908	1352
15060.350.1	350	37/.0973	0.095	2.41	0.857	21.8	1081	1609	1241	1846
15060.500.1	500	37/.1162	0.095	2.41	0.986	25.0	1544	2297	1734	2580
15060.750.1	750	61/.1109	0.110	2.79	1.199	30.5	2316	3446	2581	3840
15060.1000.1	1000	61/.1280	0.110	2.79	1.349	34.3	3088	4595	3392	5048

Dimensions and weights are nominal; subject to industry tolerances.