

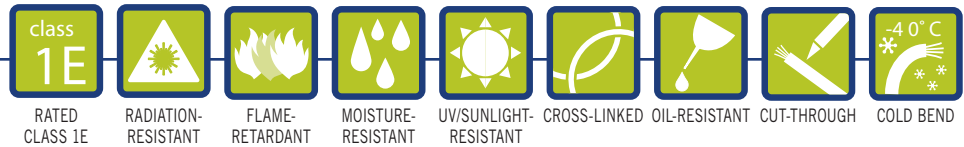
# ULTROL® 60+ Power Cable

## 3 or 4 Conductors with Ground

Class 1E Nuclear

600 V, 90°C, VW-1, UL Type TC-ER

SPEC 325-60  
May, 2023



### Product Construction

#### 1. Conductor:

- 8 AWG thru 750 kcmil tinned annealed copper per ASTM B33; Class B stranding per ASTM B8

#### 2. Insulation:

- Flame-retardant, heat-, moisture- and radiation-resistant, thermoset ULTROL® 60+ Cross-linked Polyethylene (FR-XLPE)
- Color code: Per ICEA Method 1, Table E-1

#### 3. Grounding Conductor:

- Tinned annealed copper Class B stranding, sized according to NEC® requirements

#### 4. Jacket:

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

#### Print:

- PRYSMIAN GROUP (WC) ULTROL® 60+ XX/C XXAWG WITH GRND COPPER FR-XLPE XLPO 600V 90C SUN RES OIL RES I & II DIR BUR (UL) TYPE TC-ER XHHW-2 VW-1 IEEE 1202/FT4 NUCLEAR DAY/MONTH/YEAR TRACEABILITY NUMBER SEQUENTIAL FOOTAGE

#### Options:

- Conductor stranding
- ISO Metric conductors
- Colored insulation
- Method 4 color code
- Sectioned grounding conductors
- Longitudinal corrugated tinned copper tape shield

#### Applications:

- ULTROL® 60+ power cable is a 600 V multi-conductor, thermoset, Class 1E rated construction specifically designed for applications in nuclear generating stations and where flame retardancy is critical
- For use in Class 1E power distribution and control circuits for power lighting, control and signal circuits
- Can be installed in trays, conduit, ducts, or in direct burial applications

#### 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 1277 Type TC-ER
- UL 44 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 spools on non-returnable wooden reels

# ULTROL<sup>®</sup> 60+ Power Cable

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CATALOG NUMBER	NO. OF COND.	COND.SIZE (AWG/kcmil)	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		GROUND WIRE SIZE (AWG)	MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				INCHES	mm		INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
32560.8.3	3	8	7/.0486	0.045	1.14	10	0.060	1.52	0.629	16.0	187	278	328	488
32560.8.4	4	8	7/.0486	0.045	1.14	10	0.060	1.52	0.690	17.5	238	354	406	604
32560.6.3	3	6	7/.0612	0.045	1.14	8	0.060	1.52	0.708	18.0	297	442	477	710
32560.6.4	4	6	7/.0612	0.045	1.14	8	0.060	1.52	0.779	19.8	379	564	593	882
32560.4.3	3	4	7/.0772	0.045	1.14	8	0.060	1.52	0.810	20.6	442	658	707	1052
32560.4.4	4	4	7/.0772	0.045	1.14	8	0.080	2.03	0.932	23.7	572	851	878	1306
32560.2.3	3	2	7/.0974	0.045	1.14	6	0.080	2.03	0.977	24.8	701	1043	1015	1511
32560.2.4	4	2	7/.0974	0.045	1.14	6	0.080	2.03	1.075	27.3	908	1351	1279	1904
32560.1.3	3	1	19/.0664	0.055	1.14	6	0.080	2.03	1.115	28.3	861	1281	1282	1907
32560.1.4	4	1	19/.0664	0.055	1.14	6	0.080	2.03	1.225	31.1	1122	1670	1735	2581
32560.1/0.3	3	1/0	19/.0745	0.055	1.40	6	0.080	2.03	1.186	30.1	1081	1609	1481	2204
32560.1/0.4	4	1/0	19/.0745	0.055	1.40	6	0.080	2.03	1.309	33.3	1395	2076	1894	2818
32560.2/0.3	3	2/0	19/.0837	0.055	1.40	6	0.080	2.03	1.283	32.6	1323	1969	1792	2667
32560.2/0.4	4	2/0	19/.0837	0.055	1.40	6	0.080	2.03	1.418	36.0	1737	2585	2300	3422
32560.3/0.3	3	3/0	19/.0940	0.055	1.40	4	0.080	2.03	1.391	35.3	1694	2521	2211	3290
32560.3/0.4	4	3/0	19/.0940	0.055	1.40	4	0.080	2.03	1.538	39.1	2217	3299	2838	4223
32560.4/0.3	3	4/0	19/.1055	0.055	1.40	4	0.080	2.03	1.511	38.4	2102	3128	2694	4009
32560.4/0.4	4	4/0	19/.1055	0.055	1.40	4	0.110	2.79	1.734	44.0	2760	4107	3587	5337
32560.250.3	3	250	37/.0822	0.065	1.65	4	0.080	2.03	1.658	42.1	2460	3661	3280	4881
32560.250.4	4	250	37/.0822	0.065	1.65	4	0.110	2.79	1.898	48.2	3239	4820	4189	6233
32560.350.3	3	350	37/.0973	0.065	1.65	3	0.110	2.79	1.940	49.3	3437	5115	4410	6562
32560.350.4	4	350	37/.0973	0.065	1.65	3	0.110	2.79	2.146	54.5	4517	6722	5699	8480
32560.500.3	3	500	37/.1162	0.065	1.65	2	0.110	2.79	2.218	56.3	4866	7242	6010	8943
32560.500.4	4	500	37/.1162	0.065	1.65	2	0.110	2.79	2.458	62.4	6424	9560	7776	11571
32560.750.3	3	750	61/.1109	0.080	2.03	1	0.110	2.79	2.670	67.8	7249	10788	9014	13413
32560.750.4	4	750	61/.1109	0.080	2.03	1	0.140	3.56	3.025	76.8	9585	14264	11660	17351

Dimensions and weights are nominal; subject to industry tolerances.