

ULTROL® 60+ Power Cable

3 or 4 Conductors with Ground



Class 1E Nuclear

600 V, 90°C, VW-1, UL Type TC-ER



Product Construction

1. Conductor:

- 14 AWG thru 750 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: 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)
- Color code: Black

Print:

- PRYSMIAN (WC) ULTROL® 60+ XX/C XXAWG WITH GRND COPPER FRXLPE 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 safety-related or non-safety-related applications in nuclear generating stations and where flame retardancy and radiation resistance is critical
- For use in Class 1E power distribution and control circuits for lighting, pumps, and utilization equipment
- 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 383-1974/2003/2015
- 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 non-returnable wooden reels



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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	Lb/1000 Ft	kg/km
32560.14.3	3	14	7	0.030	0.76	14	0.045	1.14	0.385	9.8	52	77	103	153
32560.14.4	4	14	7	0.030	0.76	14	0.045	1.14	0.420	10.7	65	97	125	186
32560.12.3	3	12	7	0.030	0.76	12	0.045	1.14	0.425	10.8	82	122	140	208
32560.12.4	4	12	7	0.030	0.76	12	0.045	1.14	0.465	11.8	103	153	171	254
32560.10.3	3	10	7	0.030	0.76	10	0.045	1.14	0.475	12.1	131	195	198	295
32560.10.4	4	10	7	0.030	0.76	10	0.060	1.52	0.555	14.1	164	244	258	384
32560.8.3	3	8	7	0.045	1.14	10	0.060	1.52	0.640	16.3	187	278	314	467
32560.8.4	4	8	7	0.045	1.14	10	0.060	1.52	0.700	17.8	238	354	390	580
32560.6.3	3	6	7	0.045	1.14	8	0.060	1.52	0.715	18.2	297	442	451	671
32560.6.4	4	6	7	0.045	1.14	8	0.060	1.52	0.785	19.9	379	564	558	830
32560.4.3	3	4	7	0.045	1.14	8	0.060	1.52	0.825	21.0	442	658	628	935
32560.4.4	4	4	7	0.045	1.14	8	0.080	2.03	0.950	24.1	572	851	827	1231
32560.2.3	3	2	7	0.045	1.14	6	0.080	2.03	0.995	25.3	701	1043	958	1426
32560.2.4	4	2	7	0.045	1.14	6	0.080	2.03	1.090	27.7	908	1351	1207	1796
32560.1.3	3	1	19	0.055	1.40	6	0.080	2.03	1.120	28.4	861	1281	1203	1790
32560.1.4	4	1	19	0.055	1.40	6	0.080	2.03	1.235	31.4	1122	1670	1519	2261
32560.1/0.3	3	1/0	19	0.055	1.40	6	0.080	2.03	1.205	30.6	1081	1609	1413	2103
32560.1/0.4	4	1/0	19	0.055	1.40	6	0.080	2.03	1.330	33.8	1395	2076	1801	2680
32560.2/0.3	3	2/0	19	0.055	1.40	6	0.080	2.03	1.295	32.9	1323	1969	1704	2536
32560.2/0.4	4	2/0	19	0.055	1.40	6	0.080	2.03	1.425	36.2	1737	2585	2175	3237
32560.3/0.3	3	3/0	19	0.055	1.40	4	0.080	2.03	1.400	35.6	1694	2521	2118	3152
32560.3/0.4	4	3/0	19	0.055	1.40	4	0.080	2.03	1.550	39.4	2217	3299	2707	4028
32560.4/0.3	3	4/0	19	0.055	1.40	4	0.080	2.03	1.520	38.6	2102	3128	2577	3835
32560.4/0.4	4	4/0	19	0.055	1.40	4	0.110	2.79	1.740	44.2	2760	4107	3406	5069
32560.250.3	3	250	37	0.065	1.65	4	0.110	2.79	1.730	43.9	2460	3661	3159	4701
32560.250.4	4	250	37	0.065	1.65	4	0.110	2.79	1.910	48.5	3239	4820	4057	6037
32560.350.3	3	350	37	0.065	1.65	3	0.110	2.79	1.955	49.7	3437	5115	4157	6186
32560.350.4	4	350	37	0.065	1.65	3	0.110	2.79	2.160	54.9	4517	6722	5381	8008
32560.500.3	3	500	37	0.065	1.65	2	0.110	2.79	2.230	56.6	4866	7241	5737	8538
32560.500.4	4	500	37	0.065	1.65	2	0.110	2.79	2.470	62.7	6424	9560	7463	11106
32560.750.3	3	750	61	0.080	2.03	1	0.110	2.79	2.680	68.1	7249	10788	9014	13414
32560.750.4	4	750	61	0.080	2.03	1	0.140	3.56	3.040	77.2	9585	14264	11660	17352

Dimensions and weights are nominal; subject to industry tolerances.

