

ULTROL® 60+ Control Cable Multi-Conductor



Class 1E Nuclear

600 V, 90°C, VW-1, UL Type TC-ER*



SAFETY
RELATED



RADIATION-
RESISTANT



FLAME-
RETARDANT



MOISTURE
RESISTANT



UV/SUNLIGHT-
RESISTANT



CROSS-
LINKED



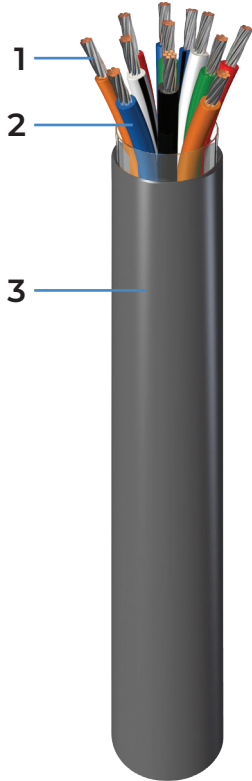
OIL-
RESISTANT



CUT-
THROUGH



COLD
BEND



Product Construction

1. Conductor:

- 14 AWG thru 10 AWG tinned annealed copper; Class B stranding; 2 thru 37 conductors

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. 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 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

* -ER for > 2 conductors

Options:

- Conductor stranding
- ISO Metric conductor
- E-2 color code

Applications:

- ULTROL® 60+ instrumentation 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 and control systems
- 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-73-532
 - UL 1277 Type TC-ER*
 - UL 44 XHHW-2
- * -ER for > 2 conductors

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



ULTROL® 60+ Control Cable

Multi-Conductor



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Catalog Number	No. of Cond.	Cond. Size (AWG)	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
27560.14.2	2	14	7/0235	0.030	0.76	0.045	1.14	0.366	9.30	24	36	75	111
27560.14.3	3	14	7/0235	0.030	0.76	0.045	1.14	0.385	9.78	36	54	92	137
27560.14.4	4	14	7/0235	0.030	0.76	0.045	1.14	0.420	10.60	48	71	113	168
27560.14.5	5	14	7/0235	0.030	0.76	0.045	1.14	0.459	11.60	61	91	136	202
27560.14.7	7	14	7/0235	0.030	0.76	0.045	1.14	0.499	12.60	85	126	176	262
27560.14.9	9	14	7/0235	0.030	0.76	0.060	1.52	0.613	15.50	109	162	243	361
27560.14.12	12	14	7/0235	0.030	0.76	0.060	1.52	0.675	17.10	155	231	339	504
27560.14.19	19	14	7/0235	0.030	0.76	0.060	1.52	0.785	19.90	245	365	536	797
27560.14.25	25	14	7/0235	0.030	0.76	0.080	2.03	0.951	24.20	321	478	661	984
27560.14.30	30	14	7/0235	0.030	0.76	0.080	2.03	1.013	25.70	385	573	836	1244
27560.14.37	37	14	7/0235	0.030	0.76	0.080	2.03	1.091	27.70	476	708	924	1375
27560.12.2	2	12	7/0297	0.030	0.76	0.045	1.14	0.402	10.20	39	58	96	143
27560.12.3	3	12	7/0297	0.030	0.76	0.045	1.14	0.420	10.70	61	91	129	192
27560.12.4	4	12	7/0297	0.030	0.76	0.045	1.14	0.460	11.70	81	121	182	271
27560.12.5	5	12	7/0297	0.030	0.76	0.045	1.14	0.503	12.80	102	152	216	322
27560.12.7	7	12	7/0297	0.030	0.76	0.060	1.52	0.585	14.90	135	200	259	385
27560.12.9	9	12	7/0297	0.030	0.76	0.060	1.52	0.671	17.00	184	274	379	564
27560.12.12	12	12	7/0297	0.030	0.76	0.060	1.52	0.754	19.20	245	365	479	713
27560.12.19	19	12	7/0297	0.030	0.76	0.080	2.03	0.923	23.40	389	579	738	1098
27560.12.25	25	12	7/0297	0.030	0.76	0.080	2.03	1.067	27.10	512	762	913	1358
27560.12.30	30	12	7/0297	0.030	0.76	0.080	2.03	1.138	28.90	613	912	1058	1574
27560.12.37	37	12	7/0297	0.030	0.76	0.080	2.03	1.227	31.20	756	1125	1274	1896
27560.10.2	2	10	7/0374	0.030	0.76	0.045	1.14	0.450	11.40	62	92	126	187
27560.10.3	3	10	7/0374	0.030	0.76	0.045	1.14	0.476	12.10	93	138	169	251
27560.10.4	4	10	7/0374	0.030	0.76	0.060	1.52	0.554	14.10	122	181	230	342
27560.10.5	5	10	7/0374	0.030	0.76	0.060	1.52	0.595	15.10	162	241	324	482
27560.10.7	7	10	7/0374	0.030	0.76	0.060	1.52	0.648	16.50	227	338	388	577
27560.10.9	9	10	7/0374	0.030	0.76	0.060	1.52	0.754	19.20	292	435	550	818
27560.10.12	12	10	7/0374	0.030	0.76	0.080	2.03	0.890	22.60	390	580	684	1018
27560.10.19	19	10	7/0374	0.030	0.76	0.080	2.03	1.038	26.40	614	914	1014	1509

Insulated conductor diameter (inches) 14 AWG (.14), 12 AWG (.16) and 10 AWG (.18).
Dimensions and weights are nominal; subject to industry tolerances.

