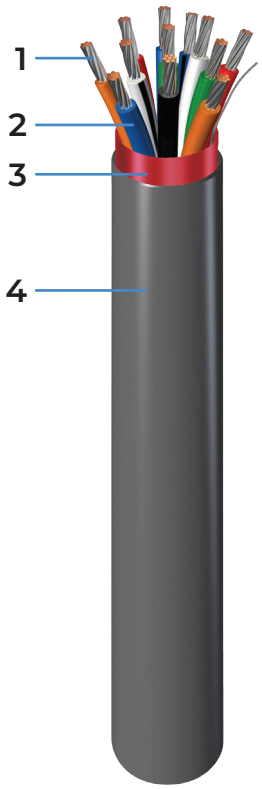
ULTROL® 60+ Instrumentation Cable Multi-Conductor, Overall Shield

Class 1E Nuclear

600 V, 90°C, VW-1

SAFETY RELATED | RADIATION-RESISTANT | FLAME-RETARDANT | MOISTURE RESISTANT | UV/SUNLIGHT-RESISTANT | CROSS-LINKED | OIL-RESISTANT | CUT-THROUGH | COLD BEND



Product Construction

1. **Conductor:**
   - 18 AWG and 16 AWG 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. **Overall Shield:**
   - Copper/polyester tape in contact with a stranded tinned copper drain wire

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 COPPER FR-XLPE XLPO SHIELDED 600V 90C SUN RES OIL RES I & II DIR BUR NUCLEAR DAY/MONTH/YEAR TRACEABILITY NUMBER SEQUENTIAL FOOTAGE

Options:
- Conductor stranding
- ISO Metric conductor
- Tinned copper braid shield
- UL Type TC-ER (-ER for > 2 conductors) with 30 mil insulation wall thickness

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
- Designed for use on circuits where overall shielding is required to protect from external electrostatic interference
- 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

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+ ADVANCING NUCLEAR POWER

ULTROL® 60+ Instrumentation Cable
Multi-Conductor, Overall Shield

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Catalog Number	No. of Cond.	Cond. Size (AWG)	Cond. Strand	Minimum Avg. Insulation Thickness		Drain 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
22560.18.2	2	18	7/.0152	0.025	0.64	20	0.045	1.14	0.295	7.49	13	19	48	71
22560.18.3	3	18	7/.0152	0.025	0.64	20	0.045	1.14	0.309	7.85	18	27	56	83
22560.18.4	4	18	7/.0152	0.025	0.64	20	0.045	1.14	0.332	8.43	23	34	79	117
22560.18.5	5	18	7/.0152	0.025	0.64	20	0.045	1.14	0.399	10.10	29	43	85	126
22560.18.7	7	18	7/.0152	0.025	0.64	20	0.045	1.14	0.428	10.90	39	58	106	158
22560.18.9	9	18	7/.0152	0.025	0.64	20	0.045	1.14	0.488	12.40	49	73	132	196
22560.18.12	12	18	7/.0152	0.025	0.64	20	0.045	1.14	0.557	14.10	64	95	164	244
22560.18.19	19	18	7/.0152	0.025	0.64	20	0.060	1.52	0.654	16.60	99	147	257	382
22560.18.25	25	18	7/.0152	0.025	0.64	20	0.060	1.52	0.747	18.90	130	193	327	487
22560.18.30	30	18	7/.0152	0.025	0.64	20	0.060	1.52	0.793	20.10	155	231	377	561
22560.18.37	37	18	7/.0152	0.025	0.64	20	0.080	2.03	0.890	22.60	191	284	449	668
22560.16.2	2	16	7/.0192	0.025	0.64	18	0.045	1.14	0.319	8.10	21	31	61	91
22560.16.3	3	16	7/.0192	0.025	0.64	18	0.045	1.14	0.335	8.51	29	43	73	108
22560.16.4	4	16	7/.0192	0.025	0.64	18	0.045	1.14	0.365	9.27	37	55	89	132
22560.16.5	5	16	7/.0192	0.025	0.64	18	0.045	1.14	0.433	11.00	46	68	109	162
22560.16.7	7	16	7/.0192	0.025	0.64	18	0.045	1.14	0.465	11.80	62	94	137	204
22560.16.9	9	16	7/.0192	0.025	0.64	18	0.060	1.52	0.561	14.20	78	116	170	253
22560.16.12	12	16	7/.0192	0.025	0.64	18	0.060	1.52	0.620	15.70	103	153	235	349
22560.16.19	19	16	7/.0192	0.025	0.64	18	0.060	1.52	0.711	18.10	159	237	337	501
22560.16.25	25	16	7/.0192	0.025	0.64	18	0.060	1.52	0.791	20.10	202	300	406	604
22560.16.30	30	16	7/.0192	0.025	0.64	18	0.080	2.03	0.904	23.00	249	371	542	806
22560.16.37	37	16	7/.0192	0.025	0.64	18	0.080	2.03	0.967	24.60	305	454	643	957

Insulated conductor diameter (inches) 18 AWG (.10) and 16 AWG (.11).
Dimensions and weights are nominal; subject to industry tolerances.