

RAPID TRANSIT & LOCOMOTIVE WIRE AND CABLE

Polyrad ULTRA Multi-Conductor Cable

600 V, 125°C, Shielded and Non-Shielded

FEATURES

- Reduced diameter and lighter-weight transit cable - 25% smaller in diameter and lighter in weight than conventional Polyrad XT 600 V
- Temperature rating at 125°C for long life, higher ampacities and protection from terminal overloads
- Higher ampacities and simplified installations possible due to small outside diameters, flexible stranding and insulation
- Outstanding thermal stability at elevated temperatures
- Maximum flame retardance
- Excellent low-temperature performance; suitable for installation in sub-zero conditions
- Extra-tough, mechanically rugged irradiated thermoset insulation and jacket
- Resistant to most oils and chemicals

APPLICATIONS

- Ideally suited for use where high-density cabling is required, as these cables offer both size and weight advantages
- Engineered and manufactured for both original equipment and retrofit use in electronic equipment
- Utilized where environmental factors require cable characteristics to perform with a high degree of flame retardancy and excellent moisture-stable electrical values. Where reliability is the major concern and where maximum performance will be demanded
- For use on all types of heavy- and light-rail cars, rapid transit cars, and diesel-electric locomotives

PRODUCT CONSTRUCTION

Conductor

- 22 AWG thru 10 AWG soft annealed tinned copper per ASTM B33, B8 and B172

Insulation

- Polyrad ULTRA flame-retardant, low-smoke irradiated Cross-Linked Polyolefin (XLPO)
- Cross-linked fluoropolymer

Shield

- Tinned copper braid
- Foil with drain wire

Jacket

- Polyrad XT flame-retardant, low-smoke irradiated Cross-Linked Polyolefin (XLPO)

Print

- GENERAL CABLE® BRAND REX BRAND (WC)
POLYRAD XT 125C/110C XXAWG 600V YEAR/MONTH

Options

- Available in shielded or non-shielded constructions
- Available in E1 or E2 colors

COMPLIANCES

Industry

- ICEA S-95-658
- UL 44

Flame Test

- IEEE 1202 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- VW-1

Other

- BSS 7239
- ASTM E662
- SMP 800-C
- NFPA 130 STD 2010

Packaging

- Standard reel put-up



TWO CONDUCTOR POLYRAD ULTRA NON-SHIELDED

PART NUMBER	AWG		INSULATED DIAMETER		JACKET THICKNESS		CABLE DIAMETER		NET CABLE WEIGHT	
	SIZE	STRANDING	INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km
05-5062	22	19/34	0.060	1.53	20	0.51	0.165	4.2	14	21
05-5063	20	19/32	0.068	1.73	20	0.51	0.180	4.6	18	27
05-5064	18	19/30	0.078	1.98	20	0.51	0.200	5.1	23	34
05-5065	16	19/29	0.084	2.13	20	0.51	0.215	5.5	28	42
05-5066	14	19/27	0.097	2.46	20	0.51	0.240	6.1	39	58
05-5067	12	19/25	0.116	2.95	20	0.51	0.275	7.0	56	83
05-5068	10	27/24	0.147	3.81	20	0.51	0.345	8.8	88	131

TWO CONDUCTOR POLYRAD ULTRA SHIELDED - 36 AWG TINNED COPPER BRAID - 85% MINIMUM COVERAGE

05-5069	22	19/34	0.060	1.53	20	0.51	0.185	4.7	23	34
05-5070	20	19/32	0.068	1.73	20	0.51	0.200	5.1	30	45
05-5071	18	19/30	0.078	1.98	20	0.51	0.220	5.6	36	54
05-5072	16	19/29	0.084	2.13	20	0.51	0.235	6.0	42	61
05-5073	14	19/27	0.097	2.46	20	0.51	0.260	6.6	54	80
05-5074	12	19/25	0.116	2.95	20	0.51	0.300	7.6	73	109
05-5075	10	27/24	0.147	3.81	20	0.51	0.365	9.3	112	167

THREE CONDUCTOR POLYRAD ULTRA NON-SHIELDED

05-5076	22	19/34	0.060	1.53	20	0.51	0.175	4.5	19	28
05-5077	20	19/32	0.068	1.73	20	0.51	0.190	4.8	25	37
05-5078	18	19/30	0.078	1.98	20	0.51	0.210	5.3	32	48
05-5079	16	19/29	0.084	2.13	20	0.51	0.225	5.7	38	57
05-5080	14	19/27	0.097	2.46	20	0.51	0.250	6.4	52	77
05-5081	12	19/25	0.116	2.95	20	0.51	0.290	7.4	78	116
05-5082	10	27/24	0.147	3.81	20	0.51	0.360	9.2	127	189

THREE CONDUCTOR POLYRAD ULTRA SHIELDED - 36 AWG TINNED COPPER BRAID - 85% MINIMUM COVERAGE

05-5083	22	19/34	0.060	1.53	20	0.51	0.195	5.0	29	43
05-5084	20	19/32	0.068	1.73	20	0.51	0.210	5.3	37	55
05-5085	18	19/30	0.078	1.98	20	0.51	0.235	6.0	45	67
05-5086	16	19/29	0.084	2.13	20	0.51	0.245	6.2	52	77
05-5087	14	19/27	0.097	2.46	20	0.51	0.275	7.0	69	103
05-5088	12	19/25	0.116	2.95	20	0.51	0.315	8.0	96	143
05-5089	10	27/24	0.147	3.81	20	0.51	0.385	9.8	149	222

»Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.

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