

# RAPID TRANSIT & LOCOMOTIVE WIRE AND CABLE

## Polyrad XT Multi-Conductor Cable

### 600 V, 125°C, Shielded

#### FEATURES

- Temperature rating at 125°C for long life, higher ampacities and protection from thermal overloads
- Excellent flexibility and free stripping
- 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 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
- Engineered and manufactured for both original equipment and retrofit use in electronic equipment
- Extensively found on all types of heavy- and light-rail cars, rapid transit cars, diesel-electric locomotives, freight cars, wayside equipment and off-road vehicles

#### PRODUCT CONSTRUCTION

##### Conductor

- 20 AWG thru 4/0 AWG soft annealed tinned copper per ASTM B33, B8 and B172

##### Insulation

- Polyrad XT flame-retardant, low-smoke irradiated Cross-Linked Polyolefin (XLPO)
- Color code: black, white, red, green

##### 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 XX/COND XXAWG SHIELDED 125C 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
- SMP 800-C
- ASTM E662
- NFPA 130 STD 2010

##### Packaging

- Standard reel put-up



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

PART NUMBER	AWG		INSULATED DIAMETER		JACKET THICKNESS		CABLE DIAMETER		NET CABLE WEIGHT	
	SIZE	STRANDING	INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km
05-5091	20	19/32	0.098	2.49	45	1.14	0.315	8.0	59	88
05-5093	18	19/30	0.108	2.74	45	1.14	0.330	8.4	63	94
05-5095	16	19/29	0.114	2.90	45	1.14	0.345	8.8	73	109
05-5097	14	19/27	0.127	3.23	45	1.14	0.370	9.4	86	130
05-5099	12	19/25	0.146	3.71	45	1.14	0.410	10.4	109	162

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

PART NUMBER	AWG		INSULATED DIAMETER		JACKET THICKNESS		CABLE DIAMETER		NET CABLE WEIGHT	
	SIZE	STRANDING	INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km
05-5101	20	19/32	0.098	2.49	45	1.14	0.325	8.3	68	88
05-5103	18	19/30	0.108	2.74	45	1.14	0.345	8.8	72	94
05-5105	16	19/29	0.114	2.90	45	1.14	0.360	9.2	87	130
05-5107	14	19/27	0.127	3.23	45	1.14	0.390	9.7	108	161
05-5109	12	19/25	0.146	3.71	45	1.14	0.430	10.9	139	162

FOUR CONDUCTOR POLYRAD XT SHIELDED -  
36 AWG TINNED COPPER BRAID - 85% MINIMUM COVERAGE

PART NUMBER	AWG		INSULATED DIAMETER		JACKET THICKNESS		CABLE DIAMETER		NET CABLE WEIGHT	
	SIZE	STRANDING	INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km
05-5111	20	19/32	0.098	2.49	45	1.14	0.350	8.9	81	121
05-5113	18	19/30	0.108	2.74	45	1.14	0.380	9.7	85	127
05-5115	16	19/29	0.114	2.90	45	1.14	0.390	9.9	106	158
05-5117	14	19/27	0.127	3.23	45	1.14	0.420	10.7	131	195
05-5119	12	19/25	0.146	3.71	45	1.14	0.465	11.8	176	262

»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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