Polyrad® ULTRA Multi-Conductor Cable

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

Through a wealth of experience providing effective cabling solutions for challenging and hazardous environments, General Cable responds to yet another industry demand by defining the next generation of cable — Polyrad® ULTRA. As developments and opportunities in transit technology drive the adoption of more sophisticated transit infrastructures, available space decreases. Consequently, the transit industry is experiencing an increasing demand for reduced size and weight of cabling systems. Ideal wherever space is at a premium and high-density cabling is required, Polyrad® ULTRA cables offer better performance, reduced weight and smaller diameters. Polyrad® ULTRA singles are designed into multi-conductor 600 Volt constructions rated at 125°C to meet a variety of high-density cabling applications.

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 Options:

- Tinned copper braid
- Foil with drain wire
- Non-shielded

Jacket:

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

Print (Including but not limited to):

 GENERAL CABLE® (WC) POLYRAD® ULTRA XX/COND XXAWG SHIELDED 125°C 600 V YEAR/MONTH

Options:

• Available in E1, E2 or Method 4 color codes

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

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

The multi-conductor cables shown in the following tables are merely a sampling of General Cable's wide range of products. Other conductor sizes, designs and/or specific installation requirements are available to meet virtually all the cabling needs of the transit and locomotive industry. For more information, contact General Cable's Transit inside sales at info@generalcable.com.





Features (cont'd.):

- 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

ΛWG

Compliances:

Industry:

- ICEA S-95-658
- RoHS Compliant

Compliances: (cont'd.):

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:

JACKET

• Standard reel put-up

TWO CONDUCTOR POLYRAD® ULTRA NON-SHIELDED

INSULATED

CATALOG	AWG		DIAMETER		THICKNESS		DIAMETER		WEIGHT	
NUMBER	SIZE	STRANDING	INCHES	mm	MILS	mm	INCHES	mm	LBS./1000'	kg/km
398540	22	19/34	0.060	1.53	20	0.51	0.165	4.2	14	21
398550	20	19/32	0.068	1.73	20	0.51	0.180	4.6	18	27
398560	18	19/30	0.078	1.98	20	0.51	0.200	5.1	23	34
387700	16	19/29	0.084	2.13	20	0.51	0.215	5.5	28	42
398570	14	19/27	0.097	2.46	20	0.51	0.240	6.1	39	58
398580	12	19/25	0.116	2.95	20	0.51	0.275	7.0	56	83
398590	10	65/28	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 COVERAGI										VERAGE
398600	22	19/34	0.060	1.53	20	0.51	0.185	4.7	23	34
398610	20	19/32	0.068	1.73	20	0.51	0.200	5.1	30	45
398620	18	19/30	0.078	1.98	20	0.51	0.220	5.6	36	54
387710	16	19/29	0.084	2.13	20	0.51	0.235	6.0	42	61
398630	14	19/27	0.097	2.46	20	0.51	0.260	6.6	54	80
398640	12	19/25	0.116	2.95	20	0.51	0.300	7.6	73	109
398650	10	65/28	0.147	3.81	20	0.51	0.365	9.3	112	167
THREE CONDUCTOR POLYRAD® ULTRA NON-SHIELDED										
398660	22	19/34	0.060	1.53	20	0.51	0.175	4.5	19	28
398670	20	19/32	0.068	1.73	20	0.51	0.190	4.8	25	37
398680	18	19/30	0.078	1.98	20	0.51	0.210	5.3	32	48
398690	16	19/29	0.084	2.13	20	0.51	0.225	5.7	38	57
398700	14	19/27	0.097	2.46	20	0.51	0.250	6.4	52	77
398710	12	19/25	0.116	2.95	20	0.51	0.290	7.4	78	116
398720	10	65/28	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										
398730	22	19/34	0.060	1.53	20	0.51	0.195	5.0	29	43
398740	20	19/32	0.068	1.73	20	0.51	0.210	5.3	37	55
387730	18	19/30	0.078	1.98	20	0.51	0.235	6.0	45	67
398750	16	19/29	0.084	2.13	20	0.51	0.245	6.2	52	77
398760	14	19/27	0.097	2.46	20	0.51	0.275	7.0	69	103
398770	12	19/25	0.116	2.95	20	0.51	0.315	8.0	96	143
398780	10	65/28	0.147	3.81	20	0.51	0.385	9.8	149	222





NET CABLE