

# Polyrad® ULTRA Wire

## 600 V, Single Conductor, 125°C, Reduced Weight, Smaller Diameter, Dual Wall

Through our wealth of experience in providing effective cabling solutions for challenging and hazardous environments, General Cable responds to yet another industry demand. As developments and opportunities in transit technology drive the adoption of more sophisticated train networks, available space decreases and becomes more costly. As a result, the transit industry is experiencing an increasing demand for the reduction of both size and weight of cabling systems. Polyrad® ULTRA wire offers better performance, reduced weight and smaller diameters, defining the next generation of cable, ideal where high-density cabling is required. Polyrad® ULTRA singles can be designed into multi-conductor constructions that are 600 Volt and rated 125°C, ideal for high-density cabling applications.

UP TO 33% WEIGHT & SPACE SAVINGS



**Product Construction:**

**Conductor:**

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

**Dual Insulation:**

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

**Print:**

- GENERAL CABLE® (WC) POLYRAD® ULTRA 125°C XXAWG 600 V DAY/MONTH/YEAR

**Options:**

- Available in multi-conductor constructions
- Available in colors other than dark gray

**Applications:**

- Ideally suited for use where high-density cabling is required, as this wire offers both size and weight advantages
- Engineered and manufactured for both original equipment and retrofit use in electronics equipment

**Applications (cont'd):**

- Utilized where environmental factors require wire 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 wire — up to 33% 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 thermal overloads
- Outstanding thermal stability at elevated temperatures
- Maximum flame retardance
- Excellent low-temperature performance; suitable for installation in sub-zero conditions

**Features (cont'd):**

- Extra-tough, mechanically rugged irradiated thermoset insulation
- Resistant to most oils and chemicals
- Meets cold bend test at -55°C

**Compliances:**

- Flame Test:**
  - IEEE 1202/FT4 (70,000 BTU/hr)
  - IEEE 383 (70,000 BTU/hr)
  - VW-1
- Other:**
  - BSS 7239
  - SMP 800-C
  - ASTM E662
  - NFPA-130 (2017) On-Vehicle
  - ASTM 1354
  - RoHS and REACH Compliant

**Packaging:**

- Standard reel put-up

\* For 14 AWG and larger

**POLYRAD® ULTRA 600 V**

CATALOG NUMBER	CONDUCTOR (AWG) SIZE AND STRANDING		NOMINAL CONDUCTOR DIAMETER		NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		COPPER WEIGHT		NOMINAL CABLE DIAMETER		NET CABLE WEIGHT		AMPACITY (FREE AIR 40°C AMBIENT) 125°C
			INCHES	mm	MILS	mm	MILS	mm	LBS/1000'	kg/km	INCHES	mm	LBS/1000'	kg/km	
369550	22	19/34	0.030	0.76	10	0.254	5	0.127	2	3	0.060	1.53	4	6	14
369560	20	19/32	0.038	0.97	10	0.254	5	0.127	4	6	0.068	1.73	6	9	17
369570	18	19/30	0.048	1.22	10	0.254	5	0.127	6	9	0.078	1.98	8	12	19
369580	16	19/29	0.054	1.37	10	0.254	5	0.127	8	12	0.084	2.13	10	15	25
369590	14	19/27	0.067	1.70	10	0.254	5	0.127	12	18	0.097	2.46	15	22	42
369600	12	19/25	0.086	2.18	10	0.254	5	0.127	19	28	0.116	2.95	23	34	55
369610	10	65/28	0.111	2.82	10	0.254	5	0.127	33	49	0.141	3.58	37	55	72

Dimensions and weights are nominal; subject to industry tolerances.

**Color Code Chart**

(Including but not limited to)

ORDERING SUFFIX	COLOR	ORDERING SUFFIX	COLOR
00	Dark Gray	05	Green
02	Red	08	Light Gray
04	Yellow	09	White

