

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-83; UL-1581, UL-2556; ASTM Stranding Class B3; B8; B787; ASTM D-1248; RoHS Compliant; ARRA 2009 Section 1605 "Buy American" Compliant; APWA Uniform Color Code; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-225933



CONSTRUCTION

Conductors

Solid or stranded soft uncoated copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation

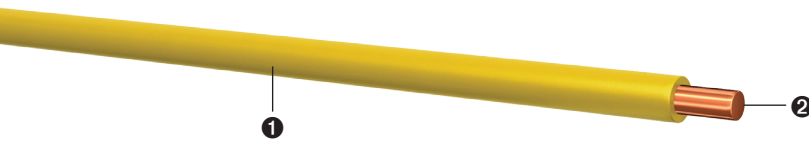
High Molecular Weight Polyethylene (HMWPE)

APPLICATIONS

Listed for 30V or 600V. Primarily used in the detection of underground piping and other underground utility installations.

FEATURES

Available in sizes 14AWG through 8AWG. 30-volt styles have a 30 MIL insulation wall; 600-volt styles have a 45 MIL insulation wall. Solid or stranded uncoated copper conductors. Suitable for direct burial in wet or dry locations. High Molecular Weight Polyethylene (HMWPE) insulation has excellent moisture, chemical, oil, crush, and abrasion resistance. Rated 90°C wet or dry. Flexibility at Low Temperature Test. Flexibility at low temperatures of -40°C rating. Colors in accordance with the American Public Works Administration Uniform Color Code: yellow for gaseous materials; red for electrical lines; orange for communications; blue for potable water; green for sewers and drain lines. Other colors available upon request.



- ① HMWPE Insulation
- ② Stranded or Solid Copper Conductor

Wire Size (AWG)	Conductor Type	Insulation Thickness (in)		Outside Diameter (in)		Approximate Net Weight (lbs)		Standard Packaging (ft)	
		30V	600V	30V	600V	30V	600V	30V	600V
14	Solid	0.030	0.045	0.123	0.153	15	18	2000' carton (4x500), 2500' Reels	1000' carton (2x500), 2500' Reels
12	Solid	0.030	0.045	0.142	0.172	24	28	1000' carton (2x500), 2500' Reels	500', 2500' Reels
10	Solid	0.030	0.045	0.161	0.191	36	39	500', 2500' Reels	500', 2500' Reels
8	Solid	0.030	0.045	0.189	0.219	62	68	500', 1000', 2500', 5000' Reels	500', 1000', 2500', 5000' Reels
14	Stranded	0.030	0.045	0.131	0.161	15	18	2000' carton (4x500), 2500' Reels	1000' carton (2x500), 2500' Reels
12	Stranded	0.030	0.045	0.149	0.179	24	28	1000' carton (2x500), 2500' Reels	500', 2500' Reels
10	Stranded	0.030	0.045	0.172	0.202	36	39	500', 2500' Reels	500', 2500' Reels
8	Stranded	0.030	0.045	0.202	0.247	72	78	500', 1000', 2500', 5000' Reels	500', 1000', 2500', 5000' Reels

*Nominal Tensile Strength 3150 psi (Yield) 2350 psi (Break)

*Tensile Elongation (Break) 590%

The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND:

30 VOLT STYLES: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE 30 MIL 30 VOLTS HMWPE (UL) DIRECT BURIAL.

YELLOW: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: GAS PIPELINE TRACER WIRE**

RED: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: ELECTRICAL POWER LINE TRACER WIRE**

ORANGE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: COMMUNICATIONS CABLE TRACER WIRE**

BLUE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: WATER MAIN TRACER WIRE**

GREEN: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: SEWER PIPELINE TRACER WIRE**

600 VOLT STYLES: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE 45 MIL 600 VOLTS HMWPE (UL) DIRECT BURIAL.

YELLOW: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: GAS PIPELINE TRACER WIRE**

RED: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: ELECTRICAL POWER LINE TRACER WIRE**

ORANGE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: COMMUNICATIONS CABLE TRACER WIRE**

BLUE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: WATER MAIN TRACER WIRE**

GREEN: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: SEWER PIPELINE TRACER WIRE**