

Copper Tracer Wire • 600 Volts • Oxygen Free Copper Conductor • Dead Soft Annealed High Molecular Weight Polyethylene (HMWPE) Insulation • Direct Burial Rated Moisture, Chemical, Oil, and Sunlight Resistant • Impact, Crush, and Abrasion Resistant RoHS Compliant • Made in the USA



Applications and Information

- **CU HDPE 45 MIL** conductors are used for tracer wire applications not exceeding 600 Volts. Tracer wire is used to conductively locate buried utility lines for the gas, water, sewer, telecommunication, and electrical markets.
- When used as **Type CU HDPE 45 MIL**, conductor is suitable for use for direct burial applications; temperatures not to exceed 75°C/167°F.
- Tracer wire is RoHS Compliant and manufactured in the USA.

Standards and References

Type CU HDPE 45 MIL conductors meet or exceed all applicable ASTM specifications and requirements of the National Electrical Code.

- ASTM B-3: Standard Specification for Soft or Annealed Copper Wire
- ASTM B170: Standard Specification for Oxygen-Free Electrolytic Copper
- ASTM D1248: Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable
- ASTM D1238: Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer

Construction

- **Type CU HDPE 45 MIL** copper conductors are annealed copper (soft drawn), insulated with a high-density, high molecular weight polyethylene (HDPE) insulation. HDPE provides an excellent balance of surface smoothness, processing ease and electrical consistency. HDPE provides superior strength against underground elements that help prevent accidental breaks caused by rocks in shifting soil conditions.
- Available in black, blue, green, orange, purple, red, white, and yellow. Some colors standard, some subject to economic order quantity.

Specifications

TYPE: CU HDPE 45 MIL TRACER WIRE

Tracer wire shall be a (14, 12 or 10 AWG SOLID HDPE 45 MIL) copper conductor with a 45 mil thick, high-density, high molecular weight polyethylene (HDPE) insulation and rated for 600 volts. Insulation and jacket shall be RoHS compliant and utilize virgin grade material. Insulation color shall meet the APWA color code standard for identification of buried utilities. Tracer wire shall be made in the USA.

CU HDPE 45 MIL Tracer Wire (Weights, Measurements, and Packaging)

TRACER WIRE

WEIGHTS, MEASUREMENTS AND PACKAGING							
PRODUCT PART NO.	CONDUCTOR		INSULATION THICKNESS (HDPE)	NOMINAL O.D. (inches)	APPROX. WEIGHT PER 1,000 FT (lbs)		STANDARD PACKAGES
	SIZE (AWG)	STRANDING			COPPER WEIGHT/MFT	PRODUCT WEIGHT/MFT	
CU HDPE 45 MIL (SOLID) TRACER WIRE							
74103XXXX	14 AWG	SOLID	0.045" (45 MIL)	0.157"	12.400 lbs	19.000 lbs	32, 47
74104XXXX	12 AWG	SOLID	0.045" (45 MIL)	0.174"	19.500 lbs	27.000 lbs	32, 47
74105XXXX	10 AWG	SOLID	0.045" (45 MIL)	0.195"	30.996 lbs	40.000 lbs	32, 47
74106XXXX	8 AWG	SOLID	0.045" (45 MIL)	0.219"	49.975 lbs	65.000 lbs	32, 47
CU HDPE 45 MIL (STRANDED) TRACER WIRE							
74108XXXX	14 AWG	7-STRAND	0.045" (45 MIL)	0.163"	12.600 lbs	19.000 lbs	32, 47
74110XXXX	12 AWG	7-STRAND	0.045" (45 MIL)	0.182"	19.600 lbs	28.000 lbs	32, 47
74112XXXX	10 AWG	7-STRAND	0.045" (45 MIL)	0.206"	31.136 lbs	41.000 lbs	32, 47
74114XXXX	8 AWG	7-STRAND	0.045" (45 MIL)	0.236"	49.824 lbs	66.000 lbs	32, 47

PART # DESIGNATION (AWG & COLOR)				
COLOR	14 AWG SOLID	12 AWG SOLID	10 AWG SOLID	8 AWG SOLID
BLACK	7410301xx	7410401xx	7410501xx	7410601xx
BLUE	7410302xx	7410402xx	7410502xx	7410602xx
GREEN	7410305xx	7410405xx	7410505xx	7410605xx
ORANGE	7410306xx	7410406xx	7410506xx	7410606xx
PURPLE	7410308xx	7410408xx	7410508xx	7410608xx
RED	7410309xx	7410409xx	7410509xx	7410609xx
WHITE	7410311xx	7410411xx	7410511xx	7410611xx
YELLOW	7410312xx	7410412xx	7410512xx	7410612xx
COLOR	14 AWG STRND	12 AWG STRND	10 AWG STRND	8 AWG STRND
BLACK	7410801xx	7411001xx	7411201xx	7411401xx
BLUE	7410802xx	7411002xx	7411202xx	7411402xx
GREEN	7410805xx	7411005xx	7411205xx	7411405xx
ORANGE	7410806xx	7411006xx	7411206xx	7411406xx
PURPLE	7410808xx	7411008xx	7411208xx	7411408xx
RED	7410809xx	7411009xx	7411209xx	7411409xx
WHITE	7410811xx	7411011xx	7411211xx	7411411xx
YELLOW	7410812xx	7411012xx	7411212xx	7411412xx

PART # DESIGNATION (PACKAGE SIZE)			
SIZE	PACKAGING	TYPE	PART NO.
14 AWG SOLID	4 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
12 AWG SOLID	4 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
10 AWG SOLID	2 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
8 AWG SOLID	1 x 500 FT REEL	BULK REEL	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
14 AWG STRANDED	4 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
12 AWG STRANDED	4 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
10 AWG STRANDED	2 x 500 FT REEL	CARTON	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47
8 AWG STRANDED	1 x 500 FT REEL	BULK REEL	xxxxxxx 32
	1 x 2500 FT REEL	BULK REEL	xxxxxxx 47

CU HDPE 45 MIL



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