

Dallas Specialty Tracer Wire Specifications

18ga, 14ga & 12ga Tracer Wire

CCS Copper Clad Steel Core Conductor Wire

PE Coated Wire assists Waterworks, Plumbing, Oil & Gas, and Fiber Optics Industries in locating Underground Utility Systems & Piping Systems. Buried at time of system burial, runs alongside the pipe. Solid Steel Copper Clad, provides a Heavy Duty, High Strength and High Performance Locating Wire that is durable, strong & reliable, flexible and easy to bury with virtually no spring release. No theft value & considerably cheaper than Copper, yet equal to copper in signal strength & outperforms copper tracer wire. Holding up under conditions where moisture is present, our Polyethylene Coated Wire is corrosion-resistant and rated for direct burial.

PE30 (Polyethylene) Coated - 30mil HDPE Tracer Wire

55,000 PSI Tensile Strength

Rated for direct burial

Insulation Thickness: 0.030"

Nominal OD's: 18ga-.101" / 14ga-.124" / 12ga-.141"

Low carbon steel core, metallurgically bonded with copper cladding, creating a bi-metal conductor

RoHS Compliant

Meets or exceeds: ASTM B910/B190M B170, D1248

Meets or exceeds requirements of the National Electrical Code



Identifies Utility Lines & Piping Systems

Open Trench Directional Boring, 43% higher break load than copper & equal to copper in signal tracing performance.

18ga Tracer Wire, 70lbs break load

14ga Medium Weight, long distance, 177lbs break load

12ga For longer distances, 282lbs break load

Available in Blue: Water Lines, Yellow: Gas Line Green: Sewer Line - All available in 500' Spools

Orange: Fiber Optics Lines (special order)



Physical, Mechanical & Electrical Properties

Conductor Type High Flex—Copper Clad Steel

Conductor Temper: Annealed

Steel Grade: 18ga AISI1006 / 14ga AISI 1006 / 12ga AISI 1006

Copper Grade: UNS C10200

Elongation (ASTM B869) ≥15.0%

Nominal Copper Thickness (% of Diameter) 3.0%

Nominal Copper Weight (Per 1000') 13.0%

Nominal DC Resistance:

18ga 30.399 ohms / 14ga 12.024 ohms / 12ga 7.562 ohms

Insulation & Printing (Physical, Mechanical & Electrical Properties)

Test Description: Density @ 23°C / ASTM D1505 / Typical Values 0.945 g/cm3

Melt Flow Rate: ASTM D1238 / Typical Values: 0.70g/10min

Tensile Strength: ASTM D638 / Typical Values: 3400psi

Tensile Strength Retention: ASTM D638 / Typical Values: 90%after 48hrs@100°C

Tensile Elongation: ASTM D638 / Typical Values: 500%

Tensile Elongation Retention: ASTM D638 / Typical Values: 90%after 48hrs @ 100°C

Environmental Stress Cracking: ASTM D1693 / Typical Values: 0 failures @ 48hrs

Thermal Stress Cracking: ASTM D2951 / Typical Values: 0 failures @ 96hrs

Brittleness Temperature: ASTM D746 / Typical Values: -76°C

Melting Temperature: ASTM D3418 / Typical Values: 260°C

Oxidative Induction Time: ASTM D3895 / Typical Values: 170 min @ 200°C

Dielectric Constant: ASTM D1531 / Typical Values: 2.32 @ 1 MHz

Dissipation Factor: ASTM D1531 / Typical Values: 0.00006 @ 1 MHz

DC Volume Resistivity @ 23°C : ASTM D257 / Typical Values: ≥1x 10/15 ohm-cm

DS Part No	Color	Gauge	Breakload	Indicates
MSTW12-500	Yellow	12ga	282 lbs	Gas
MSTW12B-500	Blue	12ga	282 lbs	Water
MSTW12G-500	Green	12ga	282 lbs	Sewer
MSTW14-500BLUE	Blue	14ga	177 lbs	Water
MSTW14-500GREEN	Green	14ga	177 lbs	Sewer
MSTW14-500Y	Yellow	14ga	177 lbs	Gas
MSTW18-500	Yellow	18ga	70 lbs	Gas
MSTW18-500BLUE	Blue	18ga	70 lbs	Water
MSTW18G-500	Green	18ga	70 lbs	Sewer



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