

Copper Theft Solutions Guide

Problems

- In a typical year...95% of electric utilities have copper theft*
 - Costing over \$60 million
 - Causing over 450,000 minutes of outage time
 - Resulting in an estimated 52 injuries and 35 deaths
 - Your utility is likely to be a victim of copper theft

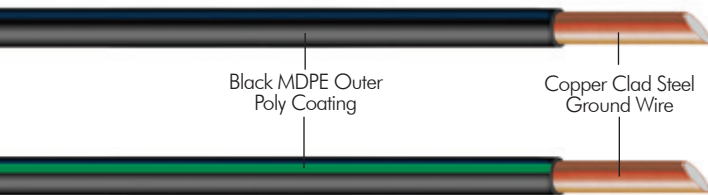
Solution

- Replace Solid Copper with Copper Clad Steel (CCS) Ground Wire
- Choose GroundSmart™ by CommScope

Poly-Coated Copper Clad Steel (CCS) Ground Wire from CommScope

Zero Recycle Value to a Thief Means Less Cost and Outages for You...

On the outside it looks like an ordinary communication cable—common, black, with absolutely no scrap value. Underneath the MDPE exterior is a high-performance, copper-clad steel ground wire. Durable, reliable and more affordable than solid copper but with no re-sale value. To a copper thief, this wire is simply not worth the trouble...which makes it invaluable to you. Also available with green stripe, for identification, as shown below.



- Easy-strip coating makes installation fast and simple.
- Clean copper surface requires no wire brushing.
- Black MDPE coating is UV-rated for long term service**.
- Installs to standard poles using ground staples.
- Installs as easy as copper - dead soft annealed.

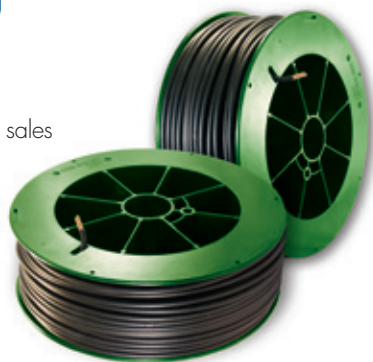
**Serves no insulation purpose; meets no other standards beyond CommScope internal specifications

Standard Packaging

Spools: 25 lb.

Coils: 50 lb. & 100 lb.

NOTE: Please contact your local sales representative for custom lengths and packaging.



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Mechanical & Physical Properties 40% Conductivity

End Count	Individual Conductor AWG	Diameter (Inches)		Length Per 25 lbs (ft)	Minimum Breaking Load @ 40 ksi (lbs)	Weight (lbs/1000 ft)	Cross Section (circular mils)
		Conductor	with Polycoat				
1	2	0.2576	0.2876	134	2,085	192	66,365
1	4	0.2043	0.2343	214	1,311	124	41,739
1	6	0.1620	0.1920	340	825	78	26,251
7	10	0.3060	0.3360	121	2,055	213	72,684
19	9	0.5720	0.6020	35	7,034	722	248,767
19	8	0.6420	0.6720	28	8,869	905	313,685

7-Strand Pole Ground Equivalent Products

7-Wire Strand-Pole Ground-Fusing Current Equivalent (FC)

Overall AWG Equivalent		Diameter (Inches)		Length Per 25 lbs (ft)	Minimum Breaking Load @ 40 ksi (lbs)	Weight (lbs/1000 ft)	Cross Section (circular mils)
FC Equivalent	Overall AWG	Conductor	with Polycoat				
2 FC Equivalent	2	0.2921	0.3221	124	2,085	196	66,367
4 FC Equivalent	4	0.2317	0.2617	160	1,311	125	41,739
6 FC Equivalent	6	0.1837	0.2137	280	825	79	26,251

7-Wire Strand - Pole Ground - Diameter Equivalent

Overall AWG Equivalent		Diameter (Inches)		Length Per 25 lbs (ft)	Minimum Breaking Load @ 40 ksi (lbs)	Weight (lbs/1000 ft)	Cross Section (circular mils)
Dia. Equivalent	Overall AWG	Conductor	with Polycoat				
2 Dia. Equivalent	2	0.2576	0.2870	134	1,614	153	51,371
4 Dia. Equivalent	4	0.2043	0.2343	214	1,020	98	32,463
6 Dia. Equivalent	6	0.1620	0.1920	340	641	62	20,412

Other sizes and additional specifications available upon request

Part of the GroundSmart® family of products offered by CommScope



Approvals & Certifications



For more information on our poly-coated CCS ground wire or other products, contact your CommScope representative.

*Source: "Copper Theft Baseline Survey of Utilities in the United States" Electrical Safety Foundation International (FSFI Survey), January, 2009.