

Temporary Protective Grounding Cable (TPE)

ASTM F-855 TYPE I



Description

Direct Wire's Grounding Cable is designed for use in temporary protective grounding systems on de-energized overhead electrical lines and de-energized electrical equipment, providing a highly reliable low-impedance path during maintenance procedures. The cable's combination of high-flexibility Class K copper stranding and durable insulating jackets ensures dependable performance in field environments where repeated handling, coiling, and mechanical stress are common. Both the Clear PVC and TPE constructions are engineered to meet the grounding performance and temperature requirements set forth in ASTM F-855, making them suitable for utility crews, electrical contractors, and industrial maintenance teams requiring safe, visible, and compliant temporary protective grounds.

Construction

Direct Wire grounding cables are built with highly flexible stranded No. 30 bare copper conductors, providing excellent conductivity and mechanical flexibility essential for temporary grounding assemblies. The TPE Grounding Cable utilizes a premium thermoplastic elastomer jacket rated for 90°C continuous operation, delivering superior cold-weather flexibility, abrasion resistance, and durability consistent with ASTM F-855 Type I elastomer-jacketed grounding cable.

See reverse for technical specifications

TPE GROUNDING CABLE							
AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1,000'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM		
#2	624 / 30	.090	2.29	.493	12.52	105 A	297
1/0	975 / 30	.090	2.29	.576	14.63	140 A	445
2/0	1,196 / 30	.100	2.54	.646	16.41	190 A	546
4/0	1,950 / 30	.100	2.54	.770	19.56	260 A	784

¹Allowable ampacity per NFPA 70 / NEC Article 400. Values are based on ambient temperature of 30°C.

FAULT CURRENT RATING TABLE FOR GROUNDING CABLE			
AWG SIZE	RATING IN AMPERES SYMMETRICAL RMS 60 HERTZ		
	15 CYCLES		30 CYCLES
#2	14,500		10,000
1/0	21,000		15,000
2/0	27,000		20,000
4/0	43,000		30,000

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



TEMPORARY PROTECTIVE GROUNDING CABLE (TPE)

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---|
| Conductors | <ul style="list-style-type: none">Highly flexible stranded No. 30 bare copper conductor |
| Voltage Rating | <ul style="list-style-type: none">600 V |
| Insulation & Jacket | <ul style="list-style-type: none">Insulated with a high grade 90°C TPE jacket.Superior flexibility in cold weatherExcellent operating temperature range from -40°C to 90°C (105°C available upon request), surpasses requirements of ASTM F-855 Type IOil resistant to UL 1581 |
| Temperature Range | <ul style="list-style-type: none">-40°C (-40°F) to 90°C (194°F) Dry, exceeding ASTM F-855 Type I |

Standards & Certifications

Manufactured According to ASTM F-855 Type I

Standard Stock

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|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Coils/Assemblies at 25', 50', and 100'Reels at 250', 500', 1,000', and 2,500'Custom lengths available upon request |
|-------------------|--|

Customization

- | | |
|-----------------|--|
| Jacket Colors | <ul style="list-style-type: none">● Yellow ● Black |
| Marking Options | <ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Sequential Marking; Private Labeling / Branding |

