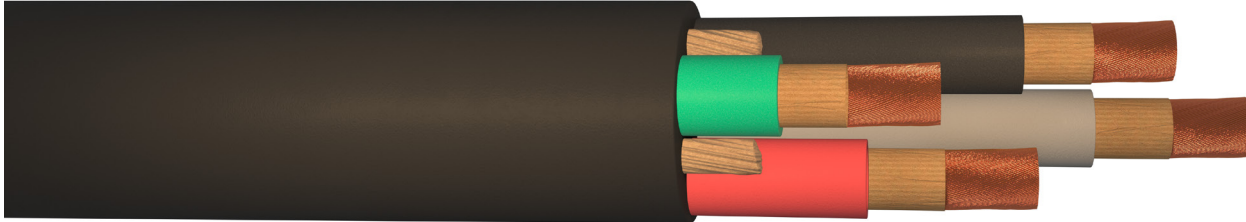


SOOW (MSHA)

MULTI-CONDUCTOR POWER CABLE



Applications

Direct's SOOW (MSHA) is a versatile multi-conductor power cable designed for use in industrial and other demanding applications, including heavy equipment, construction machinery, motors and welding leads, portable lighting, battery chargers, shallow water immersion, and mining environments. SOOW (MSHA) is MSHA compliant, NEC 400 and NFPA 70 permitted, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG SAE copper conductors
- Internal conductors insulated with proprietary LSHF EPDM compound; color-coded
- Twisted and reinforced with wrapped paper spacers
- Jacketed with proprietary CPE compound

See reverse for construction details and technical specifications

SOOW (MSHA) | MULTI-CONDUCTOR POWER CABLE

AWG SIZE / # OF COND	COND STRANDS / DIAM (OR) GA	COND WALL THICKNESS (NOM)		JACKET THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		AMPACITY ¹	APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	INCHES	MM		
8 / 2	182 / 30	0.050	1.27	0.060	1.52	0.644	16.36	40 A	238
8 / 3	182 / 30	0.050	1.27	0.060	1.52	0.703	17.86	40 A	314
8 / 4	182 / 30	0.050	1.27	0.060	1.52	0.835	21.21	35 A	406
6 / 2	260 / 30	0.050	1.27	0.060	1.52	0.694	17.63	55 A	289
6 / 3	260 / 30	0.050	1.27	0.060	1.52	0.761	19.33	55 A	398
6 / 4	260 / 30	0.050	1.27	0.060	2.03	0.835	21.21	45 A	519
4 / 2	364 / 30	0.050	1.27	0.080	2.03	0.790	20.07	70 A	378
4 / 3	364 / 30	0.050	1.27	0.080	2.03	0.838	21.29	70 A	515
4 / 4	364 / 30	0.050	1.27	0.080	2.03	0.922	23.42	60 A	665
2 / 2	624 / 30	0.050	1.27	0.080	2.03	0.954	24.23	95 A	583
2 / 3	624 / 30	0.050	1.27	0.080	2.03	1.015	25.78	95 A	813
2 / 4	624 / 30	0.050	1.27	0.080	2.03	1.121	28.47	80 A	1,052

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

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary.

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SOOW (MSHA) MULTI-CONDUCTOR POWER CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|--|
| Conductors | <ul style="list-style-type: none">• Rope-lay, bunch-stranded 30 AWG SAE copper conductors |
| Voltage Rating | <ul style="list-style-type: none">• 600 V |
| Insulation & Jacket | <ul style="list-style-type: none">• Internal conductors insulated with proprietary low-smoke, halogen-free EPDM compound; color-coded• Twisted and reinforced with wrapped paper spacers• Jacketed with proprietary CPE compound• Insulation resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid• Jacket resistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and water• 60°C (140°F) oil resistant temperature rating (CPE compound)• UL tested 720 hours sunlight resistance rating |
| Temperature Range | <ul style="list-style-type: none">• -40°C (-40°F) to 90°C (194°F) |
-

Standards & Certifications

- | | |
|--------------------|--|
| Industry Approvals | <ul style="list-style-type: none">• MSHA Compliant• NEC Article 400 Permitted• NFPA 70 Permitted• 30 CFR Subpart K• FT-5 Flame Tested• REACH, RoHS, CMRT, and Prop 65 Compliant |
|--------------------|--|
-

Standard Stock

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

Customization

- | | |
|-----------------------|--|
| Jacket Colors | <ul style="list-style-type: none">• Black |
| Standard Print Legend | <ul style="list-style-type: none">• (DIRECT LOGO) {AWG SIZE} / {COND} SOOW 600V FT5 -40°C - 90°C P-07-KA190007-MSHA 30-CFR-S-7.407 |
| Marking Options | <ul style="list-style-type: none">• Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |
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