

TYPE SOOW 90°C 600 VOLT

- UL/CSA/VDE PORTABLE CORD



PRODUCT DATA SHEET

SOOW Type Flexible Cords are permitted for use as specified by Article 400 and related articles of the 2011 National Electrical Code. SOOW Flexible Cords are designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights, welding leads, marine dockside power and power extensions applications.



CONSTRUCTION

Conductor: Fine stranded bare copper, Class K per ASTM B-174

Insulation: EPDM, oil resistant

Filler: Jute Rope

Separator: Non Woven

Jacket: CPE, oil resistant

Jacket Color: Black

FEATURES

- Excellent oil resistance
- Good tensile strength, elongation
- High flexibility
- Excellent abrasion resistance
- Ozone, sunlight and weather resistant

TECHNICAL DATA

Nominal Voltage: 600V

Temperature Range: -40°C to +90°C

Flammability: UL VW-1, CSA FT2

Reference Standard: UL 62, CSA 22.2 No.49

NEC Article 501.140 Class 1 Div.2 & 400

Approvals: UL, CSA, VDE

INSULATION COLOR

No. of Cores	Color
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Orange, Green

Cable Type	IEWC P/N	Conductor Size		No. of Cores	Conductor Strands (#/mm)		Ins. Thickness	Jac. Thickness	O.D.	Approx. Weight	Max. Cond. DC Res.
					# of wires	AWG	Nom. mm	Nom. mm		KG/KM	Ω/KM (at 20°C)
SOOW/H07RN-F	6000007144	17AWG	1.0mm ²	3	21	30	0.76	1.4	9.6±0.5	132	17.8
SOOW/H07RN-F	6000007145	17AWG	1.0mm ²	5	21	30	0.76	1.52	12.2±0.6	218	17.8
SOOW/H07RN-F	TBD	16AWG	1.5mm ²	5	30	30	0.76	1.52	13.1±0.7	262	14.9
SOOW	TBD	13AWG	-	5	52	30	1.14	2.41	17.3±1.0	488	7.02
SOOW/H07RN-F	TBD	11AWG	4.0mm ²	3	83	30	1.14	2.41	16.0±1.0	427	4.43
SOOW/H07RN-F	TBD	11AWG	4.0mm ²	5	83	30	1.14	2.41	18.9±1.2	619	4.43
SOOW	TBD	10AWG	-	3	104	30	1.14	2.41	16.8±1.0	493	3.51
SOOW	TBD	10AWG	-	5	104	30	1.14	2.41	19.6±1.2	636	3.51
SOOW/H07RN-F	TBD	9AWG		5	133	30	1.14	2.41	20.8±1.2	799	2.78
SOOW	TBD	8AWG	-	4	133	29	1.52	3.17	24.0±1.4	989	2.23
SOOW/H07RN-F	TBD	7AWG	10.0mm ²	3	106	27	1.52	3.17	24.1±1.6	988	1.77
SOOW/6AWG	TBD	6AWG	-	4	133	27	1.52	3.56	27.4±1.6	1356	1.40

Design Number	10582
Revision History	
00	2022/02/08 Initial release
01	2022/07/26 SOOW/10AWG-Score added
02	2025/03/27 Another 3 types are added
03	2025/07/09 The print legend with VDE approval is updated
Created L. Jian	Approved T. Plochoki

All trademarks are property of their respective owners. All specifications are subject to change.

Milwaukee | 5001 South Towne Dr. New Berlin, WI 53151, USA
Frankfurt | Rudolf-Braas-Strasse 2, D-61381 Friedrichsdorf, Germany
Luton | Unit 11, Humphrys Road, Woodside Industrial Estate, Dunstable, LU5 4TP, UK
Suzhou | B2-2 Weiting Industrial - Workshop A, No. 9 Weixin Road, Suzhou Industrial Park, China



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Print Legends:

SOOW/17AWG-3cores

ASCENT E486041-**-** 17AWG(1.04mm²) 3C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 3G1.0mm² 450/750V RoHS XXXXM

SOOW/17AWG-5cores

ASCENT E486041-**-** 17AWG(1.04mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 5G1.0mm² 450/750V RoHS XXXXM

SOOW/16AWG-5cores

ASCENT E486041-**-** 16AWG(1.31mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 5G1.5mm² 450/750V RoHS XXXXM

SOOW/13AWG-5cores

ASCENT E486041-**-** 13AWG(2.63mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

SOOW/H07RN-F/11AWG-3cores

ASCENT E486041-**-** 11AWG(4.17mm²) 3C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 3G4.0mm² 450/750V RoHS XXXXM

SOOW/H07RN-F/11AWG-5cores

ASCENT E486041-**-** 11AWG(4.17mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 5G4.0mm² 450/750V RoHS XXXXM

SOOW/10AWG-3cores

ASCENT E486041-**-** 10AWG(5.26mm²) 3C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

SOOW/10AWG-5cores

ASCENT E486041-**-** 10AWG(5.26mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

SOOW/H07RN-F/9AWG-5cores

ASCENT E486041-**-** 9AWG(6.63mm²) 5C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT

◁VDE▷ H07RN-F 5G6.0mm² 450/750V RoHS XXXXM

SOOW/8AWG-4cores

ASCENT E486041-**-** 8AWG(8.37mm²) 4C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

SOOW/7AWG-3cores

ASCENT E486041-**-** 7AWG(10.55mm²) 3C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

SOOW/6AWG-4cores

ASCENT E486041-**-** 6AWG(13.30mm²) 4C SOOW UL 600V (-40C-90C) --- CSA LL603159[†] FT-2 WATER RESISTANT RoHS XXXXM

Notes:

- 1) All dimensions & weights are nominal subject to industry standards and tolerance.
- 2) All product data presented here is for information purpose only.
- 3) “**” is factory code, “†” is IEWC CSA file number, it would be different depends on different factories

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