casmocable
CABLES FOR EXTREMES

SOOW / H07RN-F

-40°C to +90°C, 600V



Construction
Conductor: Bare Copper · Flexible Stranded
Core Insulation: Extruded · EPR (EPDM)
Cabling: Laid Up · Separator tape wrapped over laid-up cores; fillers and separator tapes applied as required for circularity.
Core Identification: Color-coded per HD 308 S2 (see Color Code Chart)
Jacket: Extruded · CPE

Thermal Characteristics
Operating Temperature: -40°C to +90°C
H07RN-F Temperature Range: -25°C to +60°C (flexing) and -40°C to +60°C (fixed); up to +85°C ambient (+90°C max. conductor) in fixed protected installations.

Electrical Characteristics
Operating Voltage: 600V
Test Voltage: 2500V / 5 min
H07RN-F Rated Voltage: 450/750V AC (up to 600/1000V AC in fixed protected installations).

Application
Global Export Machinery & Industrial Equipment: Dual-standard power supply and control cord for industrial machinery and equipment exported to both North American (UL 62 / CSA C22.2 No. 49) and European (EN 50525-2-21) markets without rewiring.
Industrial Portable Power & Temporary Distribution: Extra-hard-usage portable power connections for heavy tools, cranes, hoists, portable lights, mobile generators and outdoor wet locations; use as permitted by NEC Article 400 and EN 50565-2.

RoHS COMPLIANT · REACH COMPLIANT · UL LISTED · c UL LISTED

General Characteristics
Oil Resistance: Resistant to oil exposure, helping maintain the integrity of the cable covering in oily environments.
Weather Resistance: Resistant to weathering, helping maintain cable integrity under exposure to sunlight, moisture and changing weather conditions.
Extra-Hard Service Durability: Heavy-duty elastomer construction withstands abrasion, crushing, impact and rough portable handling on industrial sites.
Low-Temperature Flexibility: Maintains flexibility at low temperatures, facilitating cable routing, coiling and handling in cold environments.

Standards & Approvals
UL 62 / CSA C22.2 No. 49: Flexible Cord and Fixture Wire, Type SOOW (600 V, −40°C to +90°C; UL / cUL Listed, File E546631).
EN 50525-2-21 / IEC 60245-4: Constructed in accordance with heavy-duty elastomer-sheathed flexible cable requirements, Type H07RN-F (450/750 V). Applicable certification documentation and jacket marking options confirmed upon order.
EN 50565-2: Guide to use for cables with a rated voltage not exceeding 450/750V (including fixed protected installations up to 600/1000V AC).
IEC 60228: Class 5 flexible bare copper conductors.
NEC Article 400: Extra-hard usage portable cord; suitable for indoor, outdoor and wet locations.

Fire Performance
Fire Retardant: FT2 / IEC 60332-1-2

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CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (AWG)	Nom. Size	No. Of Strands	Nom. Strand Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
1114202C17	17/2	2×1.0 mm²	33	0.20	0.69	1.22	8.89	9.91	17.6	112
1114203C17	17/3	3G1.0 mm²	33	0.20	0.69	1.22	9.50	10.20	17.6	125
1114204C17	17/4	4G1.0 mm²	33	0.20	0.69	1.22	10.16	11.30	17.6	147
1114205C17	17/5	5G1.0 mm²	33	0.20	0.69	1.63	11.81	13.10	17.6	207
1114202C15	15/2	2×1.5 mm²	33	0.25	0.69	1.22	9.60	10.70	11.1	137
1114203C15	15/3	3G1.5 mm²	33	0.25	0.69	1.26	10.30	11.40	11.1	163
1114204C15	15/4	4G1.5 mm²	33	0.25	0.69	1.35	11.30	12.60	11.1	197
1114205C15	15/5	5G1.5 mm²	33	0.25	0.69	1.63	12.90	14.20	11.1	261
1114203C13	13/3	3G2.5 mm²	53	0.25	1.02	1.63	13.21	14.00	6.98	266
1114204C13	13/4	4G2.5 mm²	53	0.25	1.02	1.63	14.60	15.50	6.98	328
1114203C11	11/3	3G4 mm²	58	0.30	1.02	1.93	15.50	16.20	4.39	377
1114204C11	11/4	4G4 mm²	58	0.30	1.02	1.93	16.70	17.90	4.39	456
1114205C11	11/5	5G4 mm²	58	0.30	1.02	1.93	18.30	19.90	4.39	548
1114203C9	9/3	3G6 mm²	93	0.30	1.02	1.93	17.00	18.00	2.79	487
1114204C9	9/4	4G6 mm²	93	0.30	1.02	1.93	18.40	20.00	2.79	587
1114203C7	7/3	3G10 mm²	83	0.40	1.37	2.71	23.00	24.20	1.75	852
1114204C7	7/4	4G10 mm²	83	0.40	1.37	2.79	25.10	26.50	1.75	1050

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	Conductor Size (AWG)	Nom. Size	No. Of Strands	Nom. Strand Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
1114203C5	5/3	3G16 mm²	133	0.40	1.37	2.88	26.70	27.60	1.10	1188
1114204C5	5/4	4G16 mm²	133	0.40	1.37	2.96	29.20	30.10	1.10	1467
1114203C3	3/3	3G25 mm²	210	0.40	1.37	3.15	31.00	33.00	0.694	1689
1114204C3	3/4	4G25 mm²	210	0.40	1.37	3.45	33.80	36.60	0.694	2103

Table Notes

1. Standard jacket color: Black. Core color identification follows UL 62 international code (Light Blue ground-referenced conductor; G/Y = Green/Yellow protective earth, 50%–70% Green / 30%–50% Yellow) and European HD 308 S2 (see Color Code Chart below). In European size designations, "G" indicates a cable with a Green/Yellow protective earth (ground) conductor, while "×" indicates without a protective earth conductor.
2. Minimum point insulation and jacket walls reflect the stricter requirement of UL 62 and EN 50525-2-21; mean (average) wall thicknesses simultaneously meet or exceed both UL 62 minimum average thickness and EN 50525-2-21 Table B.2 nominal values.
3. Max. DC resistance at 20°C satisfies the stricter UL 62 Table 4 multiconductor cord limit (including 2% lay allowance), simultaneously meeting IEC 60228 Class 5 with margin.

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
2C (2×)	Brown, Light Blue	4C (4G)	G/Y, Brown, Black, Grey		
3C (3G)	G/Y, Brown, Light Blue	5C (5G)	G/Y, Light Blue, Brown, Black, Grey		

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