



SOOW/HO7RN-F 750V

UL 62 and EN 50525-2-21

— Portable cord and control cable ,Integral version



Applications: Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment. Other industrial applications

Standard length cable packing: 250, 500 or 1000 ft on drums. Other forms of packing and delivery are available on request.

Construction

Conductors	Flexible stranded bare copper in accordance with UL 62, IEC 60228
Separator	Paper tape from 9AWG and above
Insulation	EPR thermosetting compound
Color code	
3-core	Green/Yellow, Blue, Brown
4-core	Green/Yellow, Brown, Black, Grey
5-core	Green/Yellow, Blue, Brown, Black, Grey
Cabling	Insulated conductors are assembled round without fillers
Separator	Polyester tape
Outer jacket	CPE thermosetting compound
Colour of outer jacket	Black. Other colours available on request

Characteristic

Excellent flexibility	Resistance to oil, solvents, ozone, weather, sunlight and water
Temperature range	-40°C to +90 °C
Oil resistant	UV, sunlight, ozone
Minimum bending radius	6D D – overall diameter of cable
Ink jet printed for easy identification	

Approvals

(UL) & CUL: E123366, BBJ <HAR>

Meeting UL 62 and EN 50525-2-21

Size MM2 (AWG)	No of Cond.	Conductor Strand	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall diameter		Min Overall diameter		Max Overall diameter		kg/ km
			N/mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	
1,04mm ² (17 AWG)	2	32/0.2	0.032	0.81	0.063	1.6	0.363	9.2	0.35	8.89	0.39	9.91	112
	3	32/0.2	0.032	0.81	0.063	1.60	0.386	9.8	0.374	9.50	0.402	10.20	125
	4	32/0.2	0.032	0.81	0.063	1.60	0.412	10.5	0.400	10.16	0.445	11.3	147
	5	32/0.2	0.032	0.81	0.080	2.03	0.479	12.2	0.465	11.81	0.516	13.1	207
2,63mm ² (13 AWG)	4	52/0.25	0.047	1.19	0.085	2.16	0.594	15.1	0.575	14.6	0.61	15.5	328
4,17 mm ² (11 AWG)	3	57/0.3	0.047	1.19	0.095	2.41	0.628	15.9	0.610	15.5	0.638	16.2	377
	4	57/0.3	0.047	1.19	0.10	2.54	0.689	17.5	0.660	16.7	0.705	17.9	456
	5	57/0.3	0.047	1.19	0.10	2.54	0.748	19.0	0.72	18.3	0.783	19.9	548
6,63 mm ² (9 AWG)	3	91/0.3	0.047	1.19	0.10	2.54	0.693	17.6	0.670	17.0	0.709	18	487
	4	91/0.3	0.047	1.19	0.10	2.54	0.752	19.1	0.725	18.4	0.787	20	587
	5	91/0.3	0.047	1.19	0.106	2.70	0.827	21.0	0.795	20.2	0.874	22.2	713
10,6 mm ² (7 AWG)	3	82/0.4	0.062	1.57	0.135	3.43	0.917	23.3	0.909	23.0	0.953	24.2	852
	4	82/0.4	0.062	1.57	0.140	3.56	1.004	25.5	0.988	25.1	1.043	26.5	1050
	5	82/0.4	0.062	1.57	0.142	3.60	1.091	27.7	1.080	27.4	1.146	29.1	1251
16,8 mm ² (5AWG)	3	133/0.4	0.062	1.57	0.140	3.56	1.063	27.0	1.051	26.7	1.087	27.6	1188
	4	133/0.4	0.062	1.57	0.142	3.60	1.047	29.6	1.165	29.2	1.185	30.1	1484
	5	133/0.4	0.062	1.57	0.154	3.90	1.270	32.3	1.252	31.8	1.311	33.3	1753
26,7 mm ² (3AWG)	2	210/0.4	0.062	1.57	0.155	3.94	1.165	29.6	1.150	29.2	1.209	30.7	1488
	3	210/0.4	0.062	1.57	0.155	3.94	1.236	31.4	1.220	31.0	1.299	33.0	1689
	4	210/0.4	0.062	1.57	0.161	4.10	1.358	34.5	1.330	33.8	1.441	36.6	2103
	5	210/0.4	0.062	1.57	0.173	4.40	1.453	36.9	1.259	32.0	1.590	40.4	2457

Table.1 Apacity per NEC Table.400.5(A) (1)

Size (AWG)	A ¹	B ²
17	9	12
15	12	16
13	17	21
11	23	27
9	29	34
7	40	47
5	52	62
3	70	82

¹⁾ The current under column A apply to three-conductor cord and other multiconductor cords connected to utilization equipment so that only three-conductors are current-carrying

²⁾ The current under column B apply to two-conductor cord and other multiconductor cords connected to utilization equipment so that only two-conductors are current-carrying

Table.2 Adjustment factors for more than three current-carrying conductors

Number of conductors	Percent of value in table.1
4-6	80
7-9	70

Standard marking:

17AWG *):

TF KABLE 317AWG (1,0MM2)/3C (UL) SOOW 600V 90C E123366 c(UL) SOOW 600V 90C FT2 --- BBJ <HAR> H07RN-F ROHS

Above 17AWG:

TF KABLE 39AWG (6,0MM2)/5C (UL) SOOW 600V 90C E123366 c(UL) SOOW 600V 90C FT2 --- BBJ <HAR> H07RN-F CE ROHS

*) For 17AWG size „CE” mark is printed on the reel tags