

COPPER 0,6/1 kV, SCREENED OR ARMoured

(I)FSI(Cu) EMC PLUS

XLPE/FRNC copper energy cable, halogen-free, screened



TECHNICAL DATA



Standard
HD 604.5D



Test Voltage
4 kV



Rated Voltage
0,6/1 kV



Bending radius (min.)
12 x Ø of cable



Fire properties

EN 60332-1-2: self-extinguishing
EN 60754-2: halogen-free, non-corrosive combustion gases
EN 61034-2: low smoke emission
EN 60332-3-22: reduced flame propagation



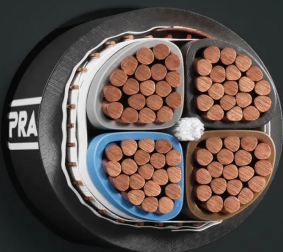
Core identification
HD 308 S2



Temperature range

Laying temperature: min. -5°C
Operating temperature: -30°C up to 90°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

DESIGN



1

Copper conductor, round solid (RE), round stranded (RM)
resp. sector-shaped stranded (SM)

2

Core insulation (XLPE)

3

Inner covering (halogen-free tape and halogen free
polymer compound)

4

Concentric screen (bare copper wires), counter helix
(copper tape) and halogen-free plastic tape

5

Sheath (halogen-free polymer compound, black, UV-
resistant)

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
2 x 1.5 RE / 1.5	12.1	28	11.6	167
3 x 1.5 RE / 1.5	12.1	25	12.1	186
4 x 1.5 RE / 1.5	12.1	25	13.0	217
7 x 1.5 RE / 1.5	12.1	16	15.3	323
12 x 1.5 RE / 1.5	12.1	13	18.8	476
19 x 1.5 RE / 1.5	12.1	11	21.2	650
2 x 2.5 RE / 2.5	7.41	37	12.6	216
3 x 2.5 RE / 2.5	7.41	33	13.1	243
4 x 2.5 RE / 2.5	7.41	33	14.0	279
2 x 4 RE / 4	4.61	49	14.1	281
3 x 4 RE / 4	4.61	43	14.7	320
4 x 4 RE / 4	4.61	43	15.6	370
2 x 6 RE / 6	3.08	62	15.1	359
2 x 6 RM / 6	3.08	62	15.5	372
3 x 6 RE / 6	3.08	54	15.8	415
3 x 6 RM / 6	3.08	54	16.2	430
4 x 6 RE / 6	3.08	54	16.8	484
4 x 6 RM / 6	3.08	54	17.3	502
2 x 10 RE / 10	1.83	85	17.3	516
2 x 10 RM / 10	1.83	85	17.7	531
3 x 10 RE / 10	1.83	75	18.1	607
3 x 10 RM / 10	1.83	75	18.5	624
4 x 10 RE / 10	1.83	75	19.5	726
4 x 10 RM / 10	1.83	75	20.0	746
2 x 16 RM / 16	1.15	113	19.8	743
3 x 16 RM / 16	1.15	100	20.8	887
4 x 16 RM / 16	1.15	100	22.3	1055
3 x 25 RM / 16	0.727	136	24.3	1245
4 x 25 RM / 16	0.727	136	26.2	1504
3 x 35 RM / 16	0.524	165	26.6	1570
4 x 35 RM / 16	0.524	165	28.8	1919
3 x 50 SM / 25	0.387	201	27.7	1874
4 x 50 SM / 25	0.387	201	30.3	2358
3 x 70 SM / 35	0.268	255	32.0	2592
4 x 70 SM / 35	0.268	255	35.7	3344
3 x 95 SM / 95	0.193	314	36.3	3995
4 x 95 SM / 50	0.193	314	40.0	4481
3 x 120 SM / 70	0.153	364	38.6	4441
4 x 120 SM / 70	0.153	364	43.5	5640
3 x 150 SM / 70	0.124	416	42.4	5296
4 x 150 SM / 70	0.124	416	48.4	6774
3 x 185 SM / 95	0.099	480	47.0	6690
4 x 185 SM / 95	0.099	480	54.4	8560
3 x 240 SM / 120	0.075	565	51.7	8594



Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
4 x 240 SM / 120	0.075	565	59.9	11011

CONTACT PERSON

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