

Rheyhalon NSHXAFOE EN



Construction 1.8/3 (3.6)kV cables designed to EN 50264-3-1 table 3, special cross-linked EPR, rubber type EI 110 insulation and special cross-linked EPR rubber type EI 104 sheath according to EN 50264-1, flexible stranded tinned copper conductor according to DIN VDE 0295/IEC 60228/HD 383 class 5, conductor wrapping optional.

Application These cables are used for inside and outside use in railway vehicles (locomotives, trains, trolleybusses, etc), switching stations and control panels. Installation in cable ducts, tubes and outside.

Cross section mm ²	Approx. outer diameter min. mm	Approx. outer diameter max. mm	Caloric load approx. kWh/m	Approx. weight kg/km	Product Code
2.5	6.2	6.5	0.22	60	R3.3KV1 × 2.5
4	6.8	7.2	0.25	80	R3.3KV1 × 4
6	7.4	7.9	0.3	100	R3.3KV1 × 6
10	8.7	9.2	0.35	160	R3.3KV1 × 10
16	9.8	10.6	0.45	230	R3.3KV1 × 16
25	12.3	13.1	0.7	340	R3.3KV1 × 25
35	13.3	14.2	0.8	450	R3.3KV1 × 35
50	14.6	15.7	0.85	600	R3.3KV1 × 50
70	16.7	17.7	1.15	820	R3.3KV1 × 70
95	19.2	20.2	1.3	1050	R3.3KV1 × 95
120	20.8	21.8	1.4	1300	R3.3KV1 × 120
150	22.9	23.9	1.7	1600	R3.3KV1 × 150
185	25	26.5	2.1	1950	R3.3KV1 × 185
240	27.9	29.3	2.3	2500	R3.3KV1 × 240
300	30.6	32	2.6	3100	R3.3KV1 × 300
400	34.2	36	3.6	4000	R3.3KV1 × 400

Electrical Properties

Nominal voltage	$U_0/U (U_{max}) = 1.8/3.0 (3.6)kV$
Maximum operating voltage in	
DC installations, one-sided earthed	$V_0 = 2.7kV$ DC
Testing AC Voltage (5 minutes):	$U = 6.5kV$
Max. operating temperature at the conductor:	
conductor at normal operation	$\leq 90^\circ C/100,000h$ $\leq 120^\circ C/20,000h$
overload	$\leq 160^\circ C/50h$
conductor under short-circuit conditions (tinned)	$\leq 200^\circ C$
Min. permissible ambient temperature	
operating in cold	$\geq -40^\circ C$
Min bending radii	
fixed installation	$\geq 6D$
free moved	$\geq 10D$
	$D = \text{cable } \emptyset$

