

RHEYFESTOON® (N)3GRD5G

Flexible Festoon Cables



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Flexible Festoon Cables

0.6/1 kV

Approval/Certificates

In line with VDE

Applications

Heavy duty rubber cable for control and power supplies. For festoon applications with mechanical tensile stresses combined with dynamic stresses.

Design

1. Conductor

Copper fine stranded, class 5 according to IEC 60228, DIN VDE 0295

2. Insulation

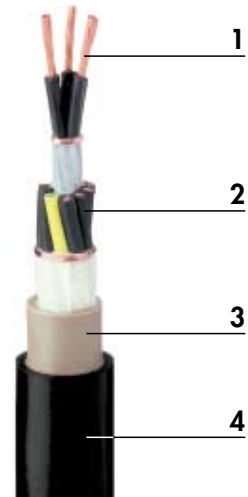
New special insulation compound „RHEYCLEAN“ based on EPDM E16, according to prEN 50363

3. Inner sheath

Special synthetic rubber, (better than EM6, according to prEN 50363)

4. Outer sheath

PCP (polychloroprene) EM7 according to prEN 50363. Colour: black



Marking

RHEYFESTOON N3GRD5G
3x50+3x25/3 1kV NEXANS

Core identification

(DIN VDE 0293 part 308/HD 308 S2)

Colour code:

4 cores: green/ yellow-brown-
black-grey

5 cores: green/ yellow-blue-
brown-black-grey

≥ 5 cores: black with printed
numbers

Standards

In line with DIN VDE 0250
part 812

Options

Further numbers of cores and cross-section upon request

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Cable characteristics

Mechanical properties		
Minimum bending radii:	outer diameter d	
	15 - 20 mm	> 20 mm
Flexible operation	5 d	5 d
Festoon systems	5 d	5 d
E-chain cable carrier systems	5 d	5 d
Static	4 d	4 d
Festoon speed approx. 200 m/min, higher speed upon request.		

Chemical properties
Oil resistant For indoor and outdoor applications. Moisture, UV and ozone resistant.

Electrical and Thermal properties	
Nominal voltage	U ₀ /U = 0.6/1 kV
Maximum operating voltage in AC systems	U ₀ /U = 0.72/1.2 kV
Test voltage 50 Hz, 5 min	energy core 2,500 V control core 2,000 V
Current rating (A)	according to DIN VDE 0298 part 4
Max. temperature at the conductor	
in service	+ 90 °C
in short circuit	+ 250 °C
Max. surface temperature	
fixed installation	- 50 °C to +90 °C
flexible operation	- 35 °C to +90 °C
Max. static tensile stress of the conductor	15 N/mm ²

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Technical data

Number of cores and nominal cross-section mm ²	Approx. outer diameter mm	Approx. weight kg/km	Max. tensile load N
1x35	13	400	525
1x50	16	600	750
1x70	18	800	1,050
1x95	20	1,000	1,425
1x120	22	1,300	1,800
1x150*	24	1,700	2,250
1x185	27	2,000	2,775
4x4	15	350	240
4x6	17	500	360
4x10	19	700	600
4x16	24	1,100	960
4x25	29	1,600	1,500
4x35	32	2,100	2,100
4x50	38	3,000	3,000
3x35+3x16/3	28	1,750	1,575
3x50+3x25/3	33	2,500	2,250
3x70+3x35/3	40	3,600	3,150
3x95+3x50/3	45	4,500	4,275
5x4	16	500	300
5x6	18	600	450
5x10	21	900	750
5x16	25	1,350	1,200
5x25	30	2,000	1,900
12x1.5	17	450	270
18x1.5	19	650	405
24x1.5	23	850	540
30x1.5	24	950	675
36x1.5	25	1,100	810
12x2.5*	18	600	450
18x2.5	22	900	650
24x2.5	25	1,150	900
30x2.5	27	1,350	1,125
36x2.5	29	1,600	1,350

* stock types

** ambient temperature 30 °C, conductor temperature 90 °C