

EASYFLEX (N)7YRDGOEU

Cable for simple reeling application



Application

Connection cable for use on spring cable reels. Typical applications in wastewater treatment plants, as well as for simple reeling operating in indoor and outdoor areas.

Global data

Brand	EASYFLEX
Type designation	(N)7YRDGOEU-J

Design features

Conductor	Bare electrolytic copper, very finely stranded, class FS
Insulation	ETFE for good mechanical and electrical characteristics (see also DIN VDE 0207)
Core identification	Black colored insulation with numbers printed in white, earth conductor green-yellow
Core arrangement	Laid-up in layers
Inner sheath	Basic material EPR, color: black
Outer sheath	Basic material EVA, color: black
Marking	EASYFLEX (N)7YRDGOEU-J (nr. of cores)x(cross-section) 0,6/1 kV

Electrical parameters

Rated voltage	0,6/1 kV (600/1000V)
Max. permissible operating voltage AC	0,7/1,2 kV
Max. permissible operating voltage DC	0,9/1,8 kV
AC Test Voltage	3,5 kV (5 Min.)
Current Carrying Capacity description	Acc. to DIN VDE 0298-4

Thermal parameters

Max. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Ambient temperature for fixed installation	min -50 °C ; max +80 °C
Ambient temperature in fully flexible operation	min -35 °C ; max +80 °C

Mechanical parameters

Max. tensile load on the conductor	15 N/mm ²
Torsional stress	± 15 °/m
Min. bending radius	6 x D
Travel speed	- Reeling operation: 80 m/min
Additional tests	Reversed bending test, reeling test

Number of cores x cross section	Part number	MLFB Number	Conductor diameter max. mm	Outer diameter min. mm	Outer diameter max. mm	Bending radius free moving min. mm	Weight (ca.) kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
(N)7YRDGOEU-J Control cables											
7x1,5		5DG4***	1.6	13.6	15	90	300	150	13.3	23	0.21
12x1,5		5DG4***	1.6	15.1	17.1	103	425	270	13.3	23	0.21
18x1,5		5DG4***	1.6	17.4	19.4	116	580	400	13.3	23	0.21
24x1,5		5DG4***	1.6	21.4	23.4	140	830	540	13.3	23	0.21
4x2,5		5DG4***	2	12	13.6	82	265	150	7.98	30	0.36
5x2,5		5DG4***	2	12.9	14.5	87	310	180	7.98	30	0.36
7x2,5		5DG4***	2	14.6	16.6	100	415	260	7.98	30	0.36
12x2,5	20025880	5DG4522	2	16.7	18.7	112	575	450	7.98	30	0.36
18x2,5	20025881	5DG4523	2	19.3	21.3	128	795	670	7.98	30	0.36
24x2,5		5DG4***	2	24.1	26.1	157	1115	900	7.98	30	0.36
(N)7YRDGOEU-J Power cables											
4x4		5DG4***	3	14.3	16.3	98	360	240	4.95	41	0.57
5x4		5DG4***	3	15.4	17.4	104	435	300	4.95	41	0.57
4x6		5DG4***	3.6	15.7	17.7	106	470	360	3.3	53	0.86
5x6		5DG4***	3.6	16.9	18.9	113	555	450	3.3	53	0.86
4x10		5DG4***	4.6	18.1	20.1	121	690	600	1.91	74	1.43
5x10		5DG4***	4.6	19.7	21.7	130	820	750	1.91	74	1.43
4x16		5DG4***	5.6	21.9	23.9	143	1035	960	1.21	99	2.29
5x16		5DG4***	5.6	23.8	25.8	155	1240	1200	1.21	99	2.29