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FESTOONFLEX PUR-HF D12Y11Y

Low Voltage Round Cable PUR Sheathed for Festoon Application (0.6/1 kV)



APPLICATION

For use as energy and control cable in festoon systems under severe conditions, including frequent bending. Also suitable for drag lines, machine tools, or materials handling systems. Suitable as drum reeling cable under moderate mechanical stress.

GLOBAL DATA

Brand	FESTOONFLEX PUR-HF
Type Designation	D12Y11Y-J / -O
Rated Voltage	0.6/1 kV (600/1000V)

DESIGN FEATURES

Conductor	Plain copper, flexible class 5 acc. to DIN EN 60228 / DIN VDE 0295
Insulation	Halogen free compound, based on polyester
Core Identification	Up to 5 cores: colored acc. to DIN VDE 0293-308; From 6 cores: white with black numbers
Core Arrangement	Cores twisted with short length of lay around central element
Outer Sheath	Polyurethane (PUR), halogen free, flame retardant; Colour: black (opaque)

ELECTRICAL PARAMETERS

Rated Voltage (Uo/U)	0.6/1 kV (600/1000V)
Max. Permissible AC Voltage	0.7/1.2 kV
Max. Permissible DC Voltage	0.9/1.8 kV
AC Test Voltage	4 kV (5 Minutes)
Current Carrying Capacity	Acc. to DIN VDE 0298-4

THERMAL PARAMETERS

Max. Conductor Temperature	90 °C
Max. Short Circuit Temperature	250 °C
Ambient Temp (Fixed)	min -50 °C ; max +80 °C
Ambient Temp (Flexible)	min -40 °C ; max +80 °C

MECHANICAL PARAMETERS

Max. Tensile Load	15 N/mm^2
Torsional Stress	± 25 °/m
Min. Bending Radius	6 x D (Proved by flexing tests)
Travel Speed	Festoon/Chain: up to 210 m/min; Reeling: up to 60 m/min

CHEMICAL PARAMETERS

Resistance to Fire	Similar to IEC 60332-1
Water Resistance	Suitable for permanent use in water up to 50m diving depth.
Halogen Free	Yes

COMPREHENSIVE SPECIFICATIONS

Cores x Cross Section	Cond. Dia (mm)	Outer Dia (min/max mm)	Weight (kg/ km)	Tensile (N)	Resistance (Ω/km)	Capacity (A)
D12Y11Y-O power cables, single core						
1x16	5.0	8.5 - 9.5	170	240	1.21	104
1x25	6.2	9.9 - 11.1	270	370	0.78	138
1x35	7.8	11.7 - 12.9	380	520	0.55	170
1x50	8.9	13.9 - 15.1	530	750	0.39	212
1x70	11.1	16.2 - 17.4	740	1050	0.27	263
1x95	12.6	17.9 - 19.1	940	1420	0.21	316
D12Y11Y-J power cables, four core						
4x1,5	1.5	8.1 - 9.1	120	90	13.3	24
4x2,5	2.0	9.2 - 10.2	160	150	7.98	32
4x4	2.6	10.3 - 11.5	230	240	4.95	43
4x6	3.2	12.1 - 13.2	320	360	3.3	56
4x10	4.0	15.0 - 16.2	520	600	1.91	78
4x16	5.0	17.7 - 18.9	750	960	1.21	104
4x25	6.2	21.1 - 22.5	1160	1500	0.78	138
D12Y11Y-J Control cables						
7x1,5	1.5	9.0 - 10.0	220	150	13.3	24
12x1,5	1.5	14.3 - 15.5	320	270	13.3	24
18x1,5	1.5	14.5 - 15.7	380	400	13.3	24
24x1,5	1.5	16.5 - 17.8	500	540	13.3	24
7x2,5	2.0	11.5 - 12.7	250	260	7.98	32
12x2,5	2.0	16.5 - 17.7	460	450	7.98	32

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Australia Website

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