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FESTOONFLEX C PUR-HF D12YC11Y

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



APPLICATION

Energy and control cable for use on festoon systems, especially where power cables are expected to cause interference on data cables. Suitable for severe conditions including frequent bending, drag lines, and machine tools.

GLOBAL DATA

Brand	FESTOONFLEX C PUR-HF
Type Designation	D12YC11Y-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: natural color with black numbers
Screen over inner sheath	Braid of tinned copper wires for electromagnetic compatibility (EMC)
Sheath System	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	Not allowed
Min. Bending Radius	6 x D (Proved by flexing tests)
Travel Speed	Festoon/Chain: up to 210 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)
D12YC11Y-O screened power cables, single core						
1x25	6.2	10.3 - 11.5	330	370	0.78	138
1x35	7.8	12.3 - 13.5	430	520	0.55	170
1x50	8.9	15.4 - 16.6	610	750	0.39	212
1x70	11.1	17.0 - 18.3	810	1050	0.27	263
1x95	12.6	18.9 - 20.1	1030	1420	0.21	316
1x120	14.8	21.4 - 22.8	1320	1800	0.16	370
D12YC11Y-J screened power cables, four core						
4x1,5	1.5	10.8 - 12.0	240	90	13.3	24
4x2,5	2.0	12.1 - 13.2	250	150	7.98	32
4x4	2.6	13.6 - 14.7	330	240	4.95	43
4x6	3.2	15.1 - 16.3	420	360	3.3	56
4x10	4.0	18.4 - 19.6	640	600	1.91	78
4x16	5.0	21.2 - 22.5	940	960	1.21	104
D12YC11Y-J screened control cables						
7x1,5	1.5	10.9 - 12.1	220	150	13.3	24
12x1,5	1.5	15.0 - 16.2	360	270	13.3	24
18x1,5	1.5	15.0 - 16.2	420	400	13.3	24
12x2,5	2.0	17.4 - 18.6	530	450	7.98	32
18x2,5	2.0	17.5 - 18.8	650	670	7.98	32

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Australia Website

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