We Make Modern Life Possible.

INDUSTRIAL CABLES

FLEXICS® CHAIN 99111C UL/c(UL)

UL recognized PP/PUR drag chain cable, screened

Extremely flexible PP/PUR control cable for transmission of instrumentation and control signals for machine building and plant construction purposes, especially for continuous moving machine parts, e.g. within C-tracks. FLEXICS® CHAIN 99111C UL/c(UL) cables are designed for both indoor and outdoor applications when exposed to high mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants.



TECHNICAL DATA

Standard
Based on VDE 0285

Certificate
UL AWM Style 20234
CSA C22.2 No.210-11, AWM

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)
1000 V (UL/CSA)

Bending cycles
5 million

Bending radius (min.)
Fixed installation: 5 x Ø of cable
Flexible use: 7.5x Ø of cable

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant
UL: vertical flame test VW-1, cable flame test
CSA: FT1

Core identification
Black (continuously numbered), from 3 cores with green/yellow ground conductor

Temperature range
Fixed installation: -50°C up to 80°C
Flexible use: -30°C up to 80°C

DESIGN



1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of polypropylene compound (PP)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Inner sheath of thermoplastic elastomer compound (TPE)
6. Tinned copper wire braiding
7. Non-woven wrapping over braiding
8. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm²)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
2 x 0.5	6.9	68
3 G 0.5	7.3	79
4 G 0.5	7.9	94
5 G 0.5	8.5	105
7 G 0.5	9.8	138
12 G 0.5	11.5	192
18 G 0.5	13.4	282
25 G 0.5	15.9	386
2 x 0.75	7.3	80
3 G 0.75	7.8	91
4 G 0.75	8.4	112
5 G 0.75	9.0	124
7 G 0.75	10.7	166
12 G 0.75	12.5	251
18 G 0.75	14.9	352
25 G 0.75	17.4	470
2 x 1	7.7	92
3 G 1	8.2	101
4 G 1	8.9	129
5 G 1	9.8	152
7 G 1	11.4	196
12 G 1	13.4	298
18 G 1	16.1	426
25 G 1	18.8	585
36 G 1	24.3	895
41 G 1	26.1	1032
50 G 1	28.4	1160
65 G 1	32.2	1660
2 x 1.5	8.4	112
3 G 1.5	9.0	133
4 G 1.5	9.9	160
5 G 1.5	10.9	188
7 G 1.5	12.7	251
12 G 1.5	15.2	377
18 G 1.5	17.8	534
25 G 1.5	21.2	768
36 G 1.5	26.4	1210
42 G 1.5	28.4	1441
50 G 1.5	31.2	1709
3 G 2.5	11.0	196
4 G 2.5	11.9	233
5 G 2.5	13.2	293
7 G 2.5	15.8	399
12 G 2.5	20.4	582

Number of cores x nominal cross-section (mm²)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
18 G 2.5	24.0	989
25 G 2.5	28.2	1382
4 G 4	13.7	348
5 G 4	15.3	420
7 G 4	20.0	651
4 G 6	16.1	499
7 G 6	23.0	844
4 G 10	22.5	1052
5 G 10	24.7	1096
7 G 10	29.3	1530
4 G 16	25.7	1386
5 G 16	28.2	1759

Technical changes reserved. All figures are therefore without guarantee.

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