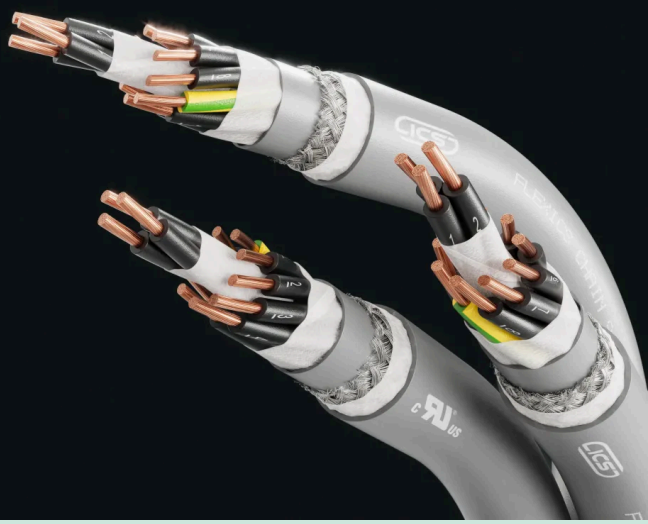
We Make Modern Life Possible.

AUTOMATION AND MOTOR SUPPLY 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)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	6.9	33	68
3 G 0.5	7.3	39	79
4 G 0.5	7.9	46	94
5 G 0.5	8.5	54	105
7 G 0.5	9.8	70	138
12 G 0.5	11.5	100	192
18 G 0.5	13.4	153	282
25 G 0.5	15.9	202	386
2 x 0.75	7.3	39	80
3 G 0.75	7.8	48	91
4 G 0.75	8.4	59	112
5 G 0.75	9.0	69	124
7 G 0.75	10.7	90	166
12 G 0.75	12.5	129	251
18 G 0.75	14.9	205	352
25 G 0.75	17.4	271	470
2 x 1	7.7	46	92
3 G 1	8.2	57	101
4 G 1	8.9	70	129
5 G 1	9.8	81	152
7 G 1	11.4	110	196
12 G 1	13.4	182	298
18 G 1	16.1	254	426
25 G 1	18.8	365	585
36 G 1	24.3	516	895
41 G 1	26.1	610	1032
50 G 1	28.4	690	1160
65 G 1	32.2	852	1660
2 x 1.5	8.4	58	112
3 G 1.5	9.0	75	133
4 G 1.5	9.9	91	160
5 G 1.5	10.9	112	188
7 G 1.5	12.7	145	251
12 G 1.5	15.2	247	377
18 G 1.5	17.8	348	534
25 G 1.5	21.2	498	768
36 G 1.5	26.4	702	1210
42 G 1.5	28.4	829	1441
50 G 1.5	31.2	1025	1709
3 G 2.5	11.0	119	196
4 G 2.5	11.9	161	233
5 G 2.5	13.2	194	293
7 G 2.5	15.8	262	399
12 G 2.5	20.4	410	582

Number of cores x nominal cross-section (mm²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
18 G 2.5	24.0	562	989
25 G 2.5	28.2	778	1382
4 G 4	13.7	238	348
5 G 4	15.3	280	420
7 G 4	20.0	352	651
4 G 6	16.1	318	499
7 G 6	23.0	528	844
4 G 10	22.5	485	1052
5 G 10	24.7	610	1096
7 G 10	29.3	820	1530
4 G 16	25.7	840	1386
5 G 16	28.2	1050	1759

Technical changes reserved. All figures are therefore without guarantee.

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