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FLEXICS® 11

PVC/PUR control cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Power, control and connecting cable for fixed laying and flexible applications, especially in wet areas of machine tools and transfer lines without mechanical stress and guided movements. Outdoor use only when protected from direct exposure to sunlight in accordance with the indicated temperature range.

TECHNICAL DATA

Standard
Based on VDE 0285

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending radius (min.)
Fixed installation: 4 x Ø of cable
Flexible use: 12.5 x Ø of cable

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

Temperature range
Fixed installation: -40°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores are stranded in layers with optimal lay-length
4. Non-woven tape separation (optional)
5. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	4.8	9.6	45
3 G 0.5	5.1	14.4	55
4 G 0.5	5.7	19.2	62
5 G 0.5	6.2	24	75
7 G 0.5	7.2	33.6	90
10 G 0.5	8.8	48	120
12 G 0.5	9.1	58	135
18 G 0.5	10.7	86.4	205
25 G 0.5	13.2	120	270
34 G 0.5	14.7	163	380
42 G 0.5	15.8	202	415
2 x 0.75	5.4	14.4	44
3 G 0.75	5.7	21.6	53
4 G 0.75	6.2	29	64
5 G 0.75	6.8	36	76
5 G 0.75	6.8	36	76
10 G 0.75	9.6	72	140
12 G 0.75	9.9	86	170
18 G 0.75	11.9	130	260
25 G 0.75	14.5	180	282
34 G 0.75	16.3	245	475
42 G 0.75	17.7	302	600
2 x 1	6.9	19.2	72
3 G 1	7.3	29	85
4 G 1	8.1	38.4	106
5 G 1	9	48	130
7 G 1	9.8	67	162
10 G 1	12.8	96	242
12 G 1	13	115	265
18 G 1	15.5	173	386
25 G 1	18.7	240	532
34 G 1	21.5	326	750
42 G 1	25.6	480	1100
50 G 1	27.5	586	1266
2 x 1.5	6.2	28.8	68
3 G 1.5	6.6	43	87
4 G 1.5	7.2	58	106
5 G 1.5	8.2	72	131
7 G 1.5	9.8	101	173
12 G 1.5	12	173	293
18 G 1.5	14.5	259	454
25 G 1.5	17.8	360	641
30 G 1.5	18	410	800
2 x 2.5	7.8	48	110
3 G 2.5	8.3	72	146
4 G 2.5	9.2	96	183
5 G 2.5	10.1	120	222
7 G 2.5	12.3	168	293
12 G 2.5	15.3	288	512
4 G 4	11	154	291
5 G 4	12.7	192	355
7 G 4	14	269	503

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 6	13.4	230	468
5 G 6	14.9	288	570
7 G 6	16.5	403	808
4 G 10	16.9	384	720
5 G 10	18.7	480	894
7 G 10	20.9	672	1295
4 G 16	19.8	614	1063

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FLEXICS® 11C

PVC/PUR control cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Power, control and connecting cable for fixed laying and flexible applications, especially in wet areas of machine tools and transfer lines without mechanical stress and guided movements. Outdoor use only when protected from direct exposure to sunlight and in accordance with the indicated temperature range. Especially when excellent EMC behavior is requested.

TECHNICAL DATA

Standard
Based on VDE 0285

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending radius (min.)
Fixed installation: 6 x Ø of cable
Flexible use: 20 x Ø of cable

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

Temperature range
Fixed installation: -40°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores are stranded in layers with optimal lay-length
4. Non-woven tape separation
5. Inner sheath of special compound based on polyvinyl chloride (PVC)
6. Tinned copper wire braiding
7. Non-woven tape separation over braiding (optional)
8. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.75	7.4	45	85
3 G 0.75	7.9	52	99
4 G 0.75	8.4	77	114
5 G 0.75	8.9	84	130
7 G 0.75	9.7	92	161
12 G 0.75	12.3	138	245
18 G 0.75	14.5	219	354
25 G 0.75	16.6	277	463
34 G 0.75	18.9	420	598
41 G 0.75	20.6	500	725
2 x 1	7.9	50	97
3 G 1	8.2	77	111
4 G 1	8.7	87	129
5 G 1	9.5	90	152
7 G 1	10.2	110	184
12 G 1	13.3	194	306
18 G 1	15.5	267	417
25 G 1	17.5	379	541
34 G 1	20.3	516	735
41 G 1	22.0	610	860
2 x 1.5	8.5	77	116
3 G 1.5	8.9	85	135
4 G 1.5	9.6	100	162
5 G 1.5	10.3	120	187
7 G 1.5	11.3	152	236
12 G 1.5	14.8	267	392
18 G 1.5	17.2	400	536
25 G 1.5	20.1	572	742
34 G 1.5	21.9	754	960
41 G 1.5	24.7	874	1118
3 G 2.5	10.3	121	191
4 G 2.5	11.3	163	232
5 G 2.5	12.6	199	282
7 G 2.5	13.9	261	370
12 G 2.5	17.2	470	580
4 G 4	13.4	238	345
5 G 4	14.7	279	412
4 G 6	15.8	318	483
5 G 6	17.3	370	576
4 G 10	19.0	558	733
4 G 16	22.2	804	1340

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We Supply
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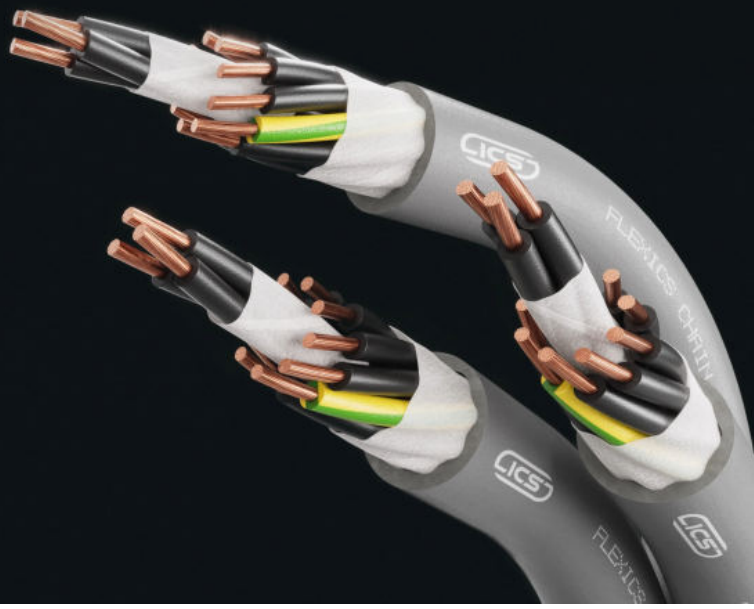
FLEXICS® CHAIN

PVC/PVC drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/PVC 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 cables are designed for indoor applications when exposed to medium mechanical stress.



TECHNICAL DATA

Standard
Based on VDE 0285

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending cycles
3 million

Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 10 x Ø of cable

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant

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

Temperature range
Fixed installation: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded together in short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Outer sheath of special compound based on polyvinyl chloride (PVC), colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5.2	9.7	32
3 G 0.5	5.5	14.4	41
4 G 0.5	6.1	19	52
5 G 0.5	6.6	24	64
7 G 0.5	8	33.6	92
12 G 0.5	9.6	58	128
18 G 0.5	11.5	86	195
25 G 0.5	14.2	120	284
2 x 0.75	5.7	14.4	39
3 G 0.75	6.2	21.6	51
4 G 0.75	6.8	29	65
5 G 0.75	7.4	36	80
7 G 0.75	8.9	50	117
12 G 0.75	10.5	86	169
18 G 0.75	12.7	130	254
25 G 0.75	15.8	180	376
2 x 1	6	19.2	46
3 G 1	6.6	29	60
4 G 1	7.3	38.4	78
5 G 1	7.9	48	96
7 G 1	9.6	67	144
12 G 1	11.4	115	205
18 G 1	13.9	173	314
25 G 1	17.6	240	498
2 x 1.5	6.7	28.8	60
3 G 1.5	7.4	43	80
4 G 1.5	8.1	48	102
5 G 1.5	9.1	72	130
7 G 1.5	10.8	101	192
12 G 1.5	13	173	273
18 G 1.5	15.6	259	417
25 G 1.5	19.8	360	632
3 G 2.5	9	72	128
4 G 2.5	10	96	161
5 G 2.5	11.2	120	205
7 G 2.5	13.5	168	300
12 G 2.5	16	288	440
18 G 2.5	20.4	432	703
25 G 2.5	24.7	600	1054
3 G 4	10.6	115	176
4 G 4	11.8	154	227
5 G 4	13.5	192	298
7 G 4	18.6	269	446
3 G 6	13	173	280
4 G 6	14.2	230	358
7 G 6	19.8	403	614

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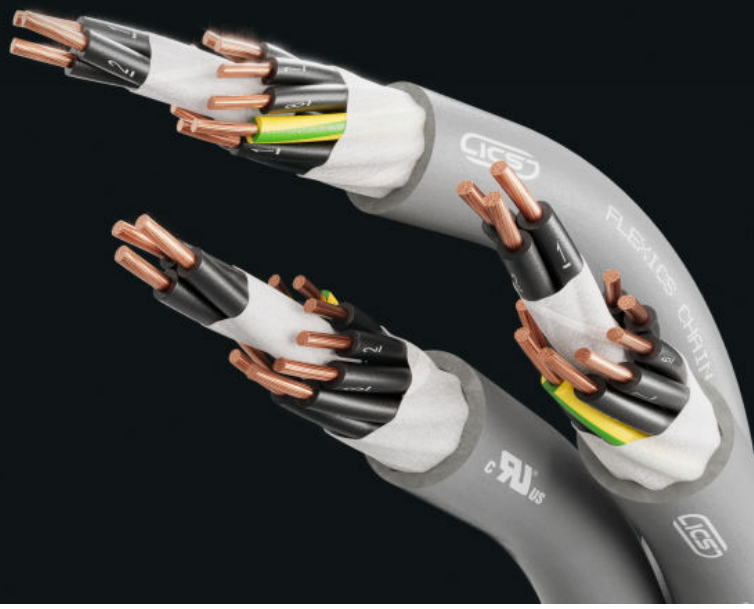
FLEXICS® CHAIN UL/c(UL)

UL recognized PVC/PVC drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/PVC 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 UL/c(UL) cables are designed for indoor applications when exposed to medium mechanical stress.



TECHNICAL DATA

Standard
Based on VDE 0285

Certificate
UL AWM 20886
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
3 million

Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 10 x 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: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Outer sheath of special compound based on polyvinyl chloride (PVC), colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5.5	9.7	42
3 G 0.5	5.9	14.4	52
4 G 0.5	6.6	19	60
5 G 0.5	7.2	24	72
7 G 0.5	8.7	33.6	106
12 G 0.5	10.5	58	150
18 G 0.5	12.5	86	231
25 G 0.5	15	120	316
2 x 0.75	6.1	14.4	51
3 G 0.75	6.6	21.6	63
4 G 0.75	7.3	29	75
5 G 0.75	8	36	90
7 G 0.75	9.6	50	132
12 G 0.75	11.6	86	201
18 G 0.75	13.9	130	300
25 G 0.75	16.6	180	415
2 x 1	6.4	19.2	58
3 G 1	7	29	72
4 G 1	7.8	38.4	88
5 G 1	8.5	48	106
7 G 1	10.3	67	159
12 G 1	12.4	115	237
18 G 1	15.1	173	358
25 G 1	18.3	240	536
2 x 1.5	7	28.8	72
3 G 1.5	7.7	43	93
4 G 1.5	8.8	58	122
5 G 1.5	9.6	72	147
7 G 1.5	11.6	101	219
12 G 1.5	13.9	173	322
18 G 1.5	16.9	259	478
25 G 1.5	20.1	360	670
3 G 2.5	9	72	130
4 G 2.5	10	96	165
5 G 2.5	11	120	210
7 G 2.5	13.4	168	308
12 G 2.5	15.9	288	446
18 G 2.5	20.4	432	718
25 G 2.5	24.7	600	1070
3 G 4	10.6	115	192
4 G 4	11.8	154	243
5 G 4	13.3	192	325
7 G 4	18.5	269	469
3 G 6	12.8	173	290
4 G 6	14	230	368
7 G 6	19.8	403	620

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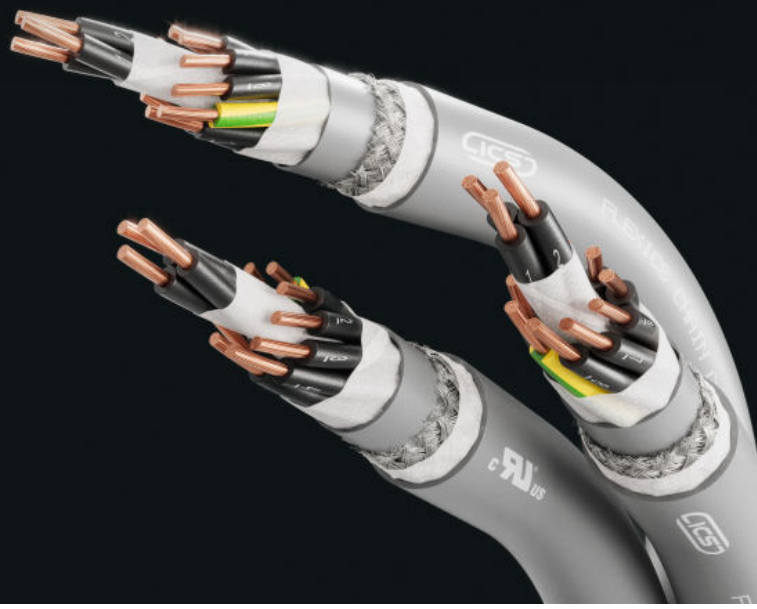
FLEXICS® CHAIN C UL/c(UL)



UL recognized PVC/PVC drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/PVC 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. Cables are designed for indoor applications when exposed to medium mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants. Especially when excellent EMC behavior is requested.

TECHNICAL DATA

Standard
Based on VDE 0285

Certificate
UL AWM 20886
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
3 million

Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 10 x 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: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Inner sheath of special compound based on polyvinyl chloride (PVC)
6. Tinned copper wire braiding
7. Non-woven tape separation over braiding (optional)
8. Outer sheath of special compound based on polyvinyl chloride (PVC), colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	7.5	33	78
3 G 0.5	7.9	39	89
4 G 0.5	8.5	46	102
5 G 0.5	9.2	54	127
7 G 0.5	10.9	70	177
12 G 0.5	12.6	100	234
18 G 0.5	15.5	153	381
25 G 0.5	17.7	202	472
2 x 0.75	7.8	39	94
3 G 0.75	8.2	48	105
4 G 0.75	8.9	59	123
5 G 0.75	10	69	155
7 G 0.75	11.6	90	206
12 G 0.75	13.8	129	304
18 G 0.75	16.3	205	425
25 G 0.75	18.6	271	548
2 x 1	8.2	46	106
3 G 1	8.6	57	123
4 G 1	9.4	70	141
5 G 1	10.6	81	178
7 G 1	12.3	110	233
12 G 1	14.6	182	362
18 G 1	17.6	254	501
25 G 1	20.2	265	667
2 x 1.5	9	58	127
3 G 1.5	9.7	75	152
4 G 1.5	10.6	91	187
5 G 1.5	11.4	112	218
7 G 1.5	13.8	145	320
12 G 1.5	16.3	247	460
18 G 1.5	19.5	348	677
25 G 1.5	23.6	498	926
3 G 2.5	11	119	208
4 G 2.5	11.8	161	244
5 G 2.5	13	194	306
7 G 2.5	15.8	262	428
12 G 2.5	20	410	682
18 G 2.5	24	562	994
25 G 2.5	28.3	778	1422
4 G 4	14	238	365
5 G 4	15.3	280	430
7 G 4	19.8	352	670
4 G 6	16.1	318	514
7 G 6	23	528	862

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FLEXICS® CHAIN 11

PVC/PUR drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/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 11 cables are designed for indoor applications when exposed to medium mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants.

TECHNICAL DATA

Standard
Based on VDE 0285

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending cycles
5 million

Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 10 x Ø of cable

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant

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

Temperature range
Fixed installation: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5.3	9.7	31
3 G 0.5	5.7	14.4	39
4 G 0.5	6.3	19	51
5 G 0.5	6.7	24	62
7 G 0.5	8	33.6	90
12 G 0.5	9.6	58	125
18 G 0.5	11.5	86	191
25 G 0.5	14.2	120	280
2 x 0.75	5.7	14.4	38
3 G 0.75	6.2	21.6	50
4 G 0.75	6.8	29	64
5 G 0.75	7.4	36	78
7 G 0.75	8.9	50	115
12 G 0.75	10.5	86	166
18 G 0.75	12.7	130	249
25 G 0.75	15.6	180	356
2 x 1	6	19.2	44
3 G 1	6.6	29	59
4 G 1	7.3	38.4	76
5 G 1	7.9	48	94
7 G 1	9.6	67	141
12 G 1	11.4	115	201
18 G 1	13.9	173	310
25 G 1	17.4	240	490
34 G 1	18.4	326	776
41 G 1	19.7	394	925
50 G 1	21.7	4802	1092
65 G 1	30.9	624	1400
2 x 1.5	6.7	28.8	59
3 G 1.5	7.4	43	78
4 G 1.5	8.1	58	100
5 G 1.5	9.1	72	128
7 G 1.5	10.8	101	189
12 G 1.5	13	173	269
18 G 1.5	15.6	259	415
25 G 1.5	19.4	360	628
34 G 1.5	20.6	490	1048
42 G 1.5	22.4	605	1290
50 G 1.5	24.2	720	1520
3 G 2.5	9	72	126
4 G 2.5	10	96	158
5 G 2.5	11.2	120	201
7 G 2.5	13.5	168	295
12 G 2.5	16	288	436
18 G 2.5	20.4	432	696
25 G 2.5	24.7	600	1042
3 G 4	10.6	115	175
4 G 4	12	154	224
5 G 4	13.5	192	292
7 G 4	18.6	269	440
3 G 6	13	173	276
4 G 6	14.2	230	352

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
7 G 6	19.8	403	608
3 G 10	16.2	288	660
4 G 10	18.1	384	750
5 G 10	20.3	480	990
7 G 10	24.3	672	1300
4 G 16	21.1	614	1200
5 G 16	23.5	768	1500

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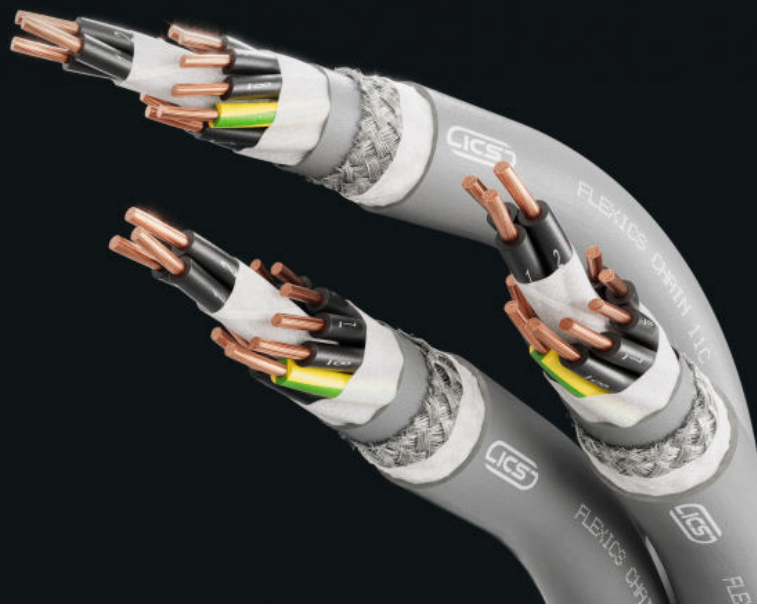
FLEXICS® CHAIN 11C



PVC/PUR drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/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. Cables are designed for indoor applications when exposed to medium mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants. Especially when excellent EMC behavior is requested.

TECHNICAL DATA

Standard
Based on VDE 0285

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending cycles
5 million

Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 10 x Ø of cable

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant

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

Temperature range
Fixed installation: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Inner sheath of special compound based on polyvinyl chloride (PVC)
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 (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	6.9	33	70
3 G 0.5	7.3	39	80
4 G 0.5	7.9	46	94
5 G 0.5	8.5	54	106
7 G 0.5	9.8	70	139
12 G 0.5	11.5	100	194
18 G 0.5	13.4	153	182
25 G 0.5	15.9	202	390
2 x 0.75	7.3	39	80
3 G 0.75	7.8	48	92
4 G 0.75	8.4	59	112
5 G 0.75	9	69	124
7 G 0.75	10.7	90	168
12 G 0.75	12.5	129	253
18 G 0.75	14.9	205	356
25 G 0.75	17.4	271	479
2 x 1	7.7	46	92
3 G 1	8.2	57	100
4 G 1	8.9	70	129
5 G 1	9.8	81	154
7 G 1	11.4	110	198
12 G 1	13.4	182	300
18 G 1	16.1	254	429
25 G 1	18.8	365	590
34 G 1	23.3	478	825
41 G 1	25.1	576	980
50 G 1	27.6	702	1160
65 G 1	30.7	913	1670
2 x 1.5	8.4	58	112
3 G 1.5	9	75	133
4 G 1.5	9.9	91	162
5 G 1.5	10.9	112	188
7 G 1.5	12.7	145	251
12 G 1.5	15.2	247	378
18 G 1.5	17.8	348	536
25 G 1.5	21.2	498	766
34 G 1.5	26.1	702	1180
42 G 1.5	27.8	867	1458
50 G 1.5	30.3	1033	1857
3 G 2.5	11	119	198
4 G 2.5	11.9	161	233
5 G 2.5	13.2	194	294
7 G 2.5	15.8	262	399
12 G 2.5	20.4	410	582
18 G 2.5	24	562	989
25 G 2.5	28.2	778	1400
4 G 4	13.7	238	348
5 G 4	15.3	280	420
7 G 4	20	352	651
4 G 6	16.1	318	499
7 G 6	23	528	844
3 G 10	20.4	370	855

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 10	23	485	1140
5 G 10	25.3	610	1310
7 G 10	28	820	1630
4 G 16	26.2	840	1391
5 G 16	28.6	1050	1810

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We Supply
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FLEXICS® CHAIN 11 UL/c(UL)

UL recognized PVC/PUR drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/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 11 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: 7.5 x Ø of cable
Flexible use: 10 x 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: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	6.5	9.7	46
3 G 0.5	6.8	14.4	55
4 G 0.5	7.5	19	69
5 G 0.5	8	24	85
7 G 0.5	9.8	33.6	117
12 G 0.5	10.8	58	155
18 G 0.5	12.7	86	224
25 G 0.5	15.2	120	328
2 x 0.75	6.8	14.4	54
3 G 0.75	7.3	21.6	66
4 G 0.75	8	29	82
5 G 0.75	8.7	36	101
7 G 0.75	10.7	50	142
12 G 0.75	11.7	86	196
18 G 0.75	13.9	130	282
25 G 0.75	16.6	180	404
2 x 1	7.1	19.2	60
3 G 1	7.7	29	75
4 G 1	8.5	38.4	94
5 G 1	9.2	48	117
7 G 1	11.4	67	168
12 G 1	12.6	115	231
18 G 1	15.1	173	343
25 G 1	18.4	240	538
2 x 1.5	7.7	28.8	78
3 G 1.5	8.4	43	98
4 G 1.5	9.3	58	125
5 G 1.5	10.1	72	151
7 G 1.5	11.9	101	221
12 G 1.5	13.9	173	318
18 G 1.5	16.9	259	484
25 G 1.5	20.1	360	671
3 G 2.5	9.3	72	134
4 G 2.5	10.3	96	170
5 G 2.5	11.3	120	205
7 G 2.5	13.4	168	295
12 G 2.5	16	288	440
18 G 2.5	20.4	432	698
25 G 2.5	24.7	600	1045
3 G 4	10.9	115	190
4 G 4	12.1	154	247
5 G 4	13.5	192	312
7 G 4	18.6	269	452
3 G 6	13	173	288
4 G 6	14.2	230	363
7 G 6	19.8	403	622

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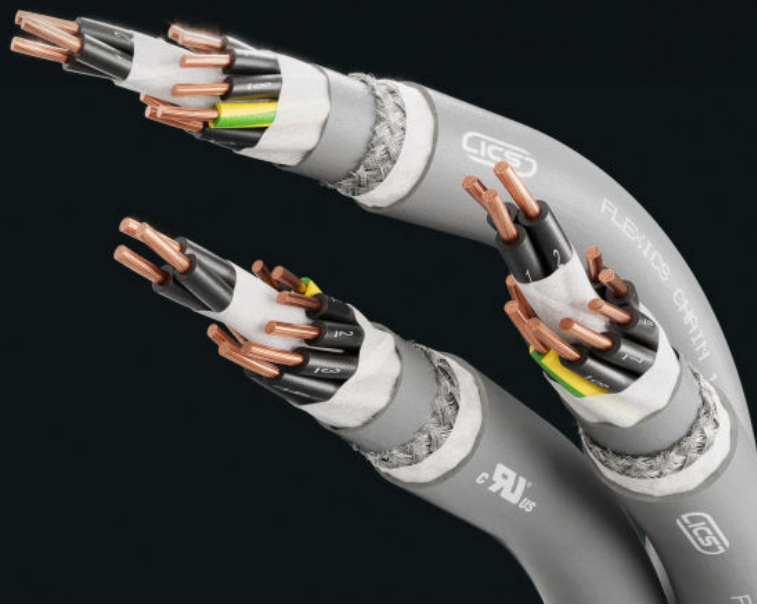
FLEXICS® CHAIN 11C UL/c(UL)



UL recognized PVC/PUR drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/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. Cables are designed for indoor applications when exposed to medium mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants. Especially when excellent EMC behavior is requested.

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: 7.5 x Ø of cable
Flexible use: 10 x 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: -30°C up to 80°C
Flexible use: -5°C up to 70°C

DESIGN

1. Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
2. Core insulation of special compound based on polyvinyl chloride (PVC)
3. Cores stranded in layers with short lay-lengths
4. Non-woven wrapping over each stranding layer
5. Inner sheath of special compound based on polyvinyl chloride (PVC)
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 (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	8.1	33	85
3 G 0.5	8.4	39	96
4 G 0.5	9.1	46	112
5 G 0.5	9.8	54	129
7 G 0.5	11.6	70	166
12 G 0.5	12.7	100	224
18 G 0.5	14.6	153	215
25 G 0.5	16.9	202	438
2 x 0.75	8.4	39	96
3 G 0.75	8.9	48	108
4 G 0.75	9.6	59	130
5 G 0.75	10.3	69	147
7 G 0.75	12.5	90	195
12 G 0.75	13.7	129	283
18 G 0.75	16.1	205	389
25 G 0.75	18.4	271	527
2 x 1	8.8	46	108
3 G 1	9.3	57	116
4 G 1	10.1	70	147
5 G 1	11.1	81	177
7 G 1	13.2	110	225
12 G 1	14.6	182	330
18 G 1	17.3	254	462
25 G 1	19.8	365	638
2 x 1.5	9.4	58	131
3 G 1.5	10	75	153
4 G 1.5	11.1	91	187
5 G 1.5	11.9	112	215
7 G 1.5	13.8	145	283
12 G 1.5	16.1	247	427
18 G 1.5	19.1	348	605
25 G 1.5	21.9	498	809
3 G 2.5	11.2	119	206
4 G 2.5	12.2	161	245
5 G 2.5	13.3	194	298
7 G 2.5	15.7	262	399
12 G 2.5	20.4	410	586
18 G 2.5	24	562	991
25 G 2.5	28.2	778	1403
4 G 4	14	238	363
5 G 4	15.4	280	443
7 G 4	20	352	671
4 G 6	16.1	318	510
7 G 6	23	528	856

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We Supply
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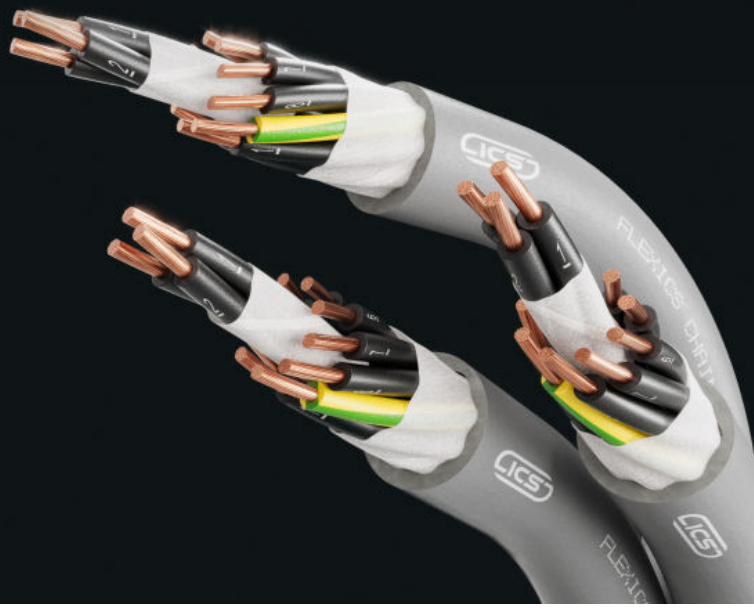
FLEXICS® CHAIN 911

PP/PUR drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

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 911 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

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending cycles
5 million

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

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant

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. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5	9.7	33
3 G 0.5	5.2	14.4	40
4 G 0.5	6.5	19	54
5 G 0.5	7	24	62
7 G 0.5	7.7	33.6	76
12 G 0.5	9.1	58	114
18 G 0.5	11	86	165
25 G 0.5	13.2	120	218
2 x 0.75	5.6	14.4	42
3 G 0.75	5.9	21.6	50
4 G 0.75	6.7	29	61
5 G 0.75	7.2	36	72
7 G 0.75	8.8	50	100
12 G 0.75	10.2	86	158
18 G 0.75	12.2	130	219
25 G 0.75	15.4	180	314
2 x 1	6	19.2	48
3 G 1	6.5	29	61
4 G 1	7.2	38.4	72
5 G 1	7.7	48	93
7 G 1	9.5	67	122
12 G 1	11.2	115	196
18 G 1	13.7	173	278
25 G 1	17.2	240	385
36 G 1	20.1	346	625
41 G 1	22	410	779
50 G 1	24	498	953
65 G 1	27.2	650	1205
2 x 1.5	6.7	28.8	68
3 G 1.5	7.3	43	83
4 G 1.5	7.9	48	102
5 G 1.5	9	72	128
7 G 1.5	10.6	101	177
12 G 1.5	12.5	173	275
18 G 1.5	15.2	259	405
25 G 1.5	19	360	562
36 G 1.5	22.2	518	880
42 G 1.5	24	628	1209
50 G 1.5	26.2	749	1449
3 G 2.5	8.8	72	122
4 G 2.5	9.8	96	163
5 G 2.5	11	120	196
7 G 2.5	13.3	168	268
12 G 2.5	15.8	288	446
18 G 2.5	18.8	432	665
25 G 2.5	24	600	932
4 G 4	12.8	154	240
5 G 4	14.1	192	298
7 G 4	16.9	269	418
4 G 6	14.9	230	354
7 G 6	19	403	610
4 G 10	18.4	384	685

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
5 G 10	20.7	480	817
7 G 10	24.7	672	1023
4 G 16	21.3	614	1042
5 G 16	23.8	768	1292

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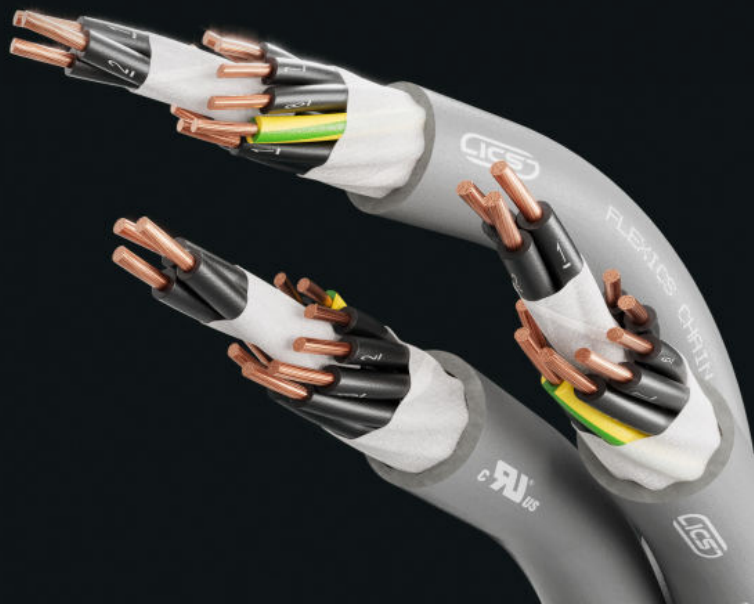
FLEXICS® CHAIN 911 UL/c(UL)



UL recognized PP/PUR drag chain cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

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 911 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: 7.5 x 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. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5	9.7	33
3 G 0.5	5.2	14.4	40
4 G 0.5	6.5	19	54
5 G 0.5	7	24	62
7 G 0.5	7.7	33.6	76
12 G 0.5	9.1	58	114
18 G 0.5	11	86	165
25 G 0.5	13.2	120	218
2 x 0.75	5.6	14.4	42
3 G 0.75	5.9	21.6	50
4 G 0.75	6.7	29	61
5 G 0.75	7.2	36	72
7 G 0.75	8.8	50	100
12 G 0.75	10.2	86	158
18 G 0.75	12.2	130	219
25 G 0.75	15.4	180	314
2 x 1	6	19.2	48
3 G 1	6.5	29	61
4 G 1	7.2	38.4	72
5 G 1	7.7	48	93
7 G 1	9.5	67	122
12 G 1	11.2	115	196
18 G 1	13.7	173	278
25 G 1	17.2	240	385
36 G 1	20.1	346	625
41 G 1	22	410	779
50 G 1	24	498	953
65 G 1	27.2	650	1205
2 x 1.5	6.7	28.8	68
3 G 1.5	7.3	43	83
4 G 1.5	7.9	48	102
5 G 1.5	9	72	128
7 G 1.5	10.6	101	177
12 G 1.5	12.5	173	275
18 G 1.5	15.2	259	405
25 G 1.5	19	360	562
36 G 1.5	22.2	518	880
42 G 1.5	24	628	1209
50 G 1.5	26.2	749	1449
3 G 2.5	8.8	72	122
4 G 2.5	9.8	96	163
5 G 2.5	11	120	196
7 G 2.5	13.3	168	268
12 G 2.5	15.8	288	446
18 G 2.5	18.8	432	665
25 G 2.5	24	600	932
4 G 4	12.8	154	240
5 G 4	14.1	192	298
7 G 4	16.9	269	418
4 G 6	14.9	230	354
7 G 6	19	403	610
4 G 10	18.4	384	685

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
5 G 10	20.7	480	817
7 G 10	24.7	672	1023
4 G 16	21.3	614	1042
5 G 16	23.8	768	1292

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We Supply
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FLEXICS® CHAIN 911C UL/c(UL)

UL recognized PP/PUR drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

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 911C 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: 7.5 x 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-length
4. Non-woven wrapping over each stranding layer
5. Tinned copper wire braiding
6. Non-woven wrapping over braiding
7. Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	5.8	22.5	42.9
3 G 0.5	6.1	27.1	50.6
4 G 0.5	6.5	35.1	62.6
5 G 0.5	7	43.1	74.1
7 G 0.5	8.5	55.8	101
12 G 0.5	10	83.1	14.5
18 G 0.5	11.8	120	207.1
25 G 0.5	14.1	171	288.6
2 x 0.75	6.2	30.4	52.7
3 G 0.75	6.6	37.5	63.4
4 G 0.75	7.1	47.9	78
5 G 0.75	7.7	55.2	90.4
7 G 0.75	9.1	75.9	126.1
12 G 0.75	10.9	115.3	183.6
18 G 0.75	13	168	269.8
25 G 0.75	15.6	239.6	377
2 x 1	6.5	35.3	58.5
3 G 1	6.9	44.7	71.6
4 G 1	7.5	57.7	89.4
5 G 1	8.3	70.3	110.2
7 G 1	9.8	92.7	149.2
12 G 1	11.7	148.7	224.4
18 G 1	14	224.1	331.3
25 G 1	16.7	299.5	449.2
36 G 1	23.3	346	625
41 G 1	25.1	410	779
50 G 1	27.4	498	953
65 G 1	31.2	650	1205
2 x 1.5	7.1	47.9	73.8
3 G 1.5	7.5	62.5	92.6
4 G 1.5	8.4	80	118.9
5 G 1.5	9	97.5	142.7
7 G 1.5	10.9	129.7	194.9
12 G 1.5	13.3	211	301.9
18 G 1.5	15.7	319	447.8
25 G 1.5	18.7	428.1	606.5
36 G 1.5	25.3	518	880
42 G 1.5	27.4	628	1209
50 G 1.5	30	749	1449
3 G 2.5	9	97.4	138.9
4 G 2.5	10.1	124.8	178.2
5 G 2.5	11.2	148.7	215.4
7 G 2.5	13.5	206.5	301.6
12 G 2.5	16.2	347.5	572.7
18 G 2.5	23	432	665
25 G 2.5	27.2	600	932
4 G 4	11.9	187	256.1
5 G 4	14.3	192	298
7 G 4	19	269	418
4 G 6	15.1	230	354
7 G 6	22	403	610
4 G 10	20.5	452.1	606.5

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
5 G 10	22.7	480	817
7 G 10	27.3	672	1023
4 G 16	21.5	699.5	884.2
5 G 16	25.8	768	1292

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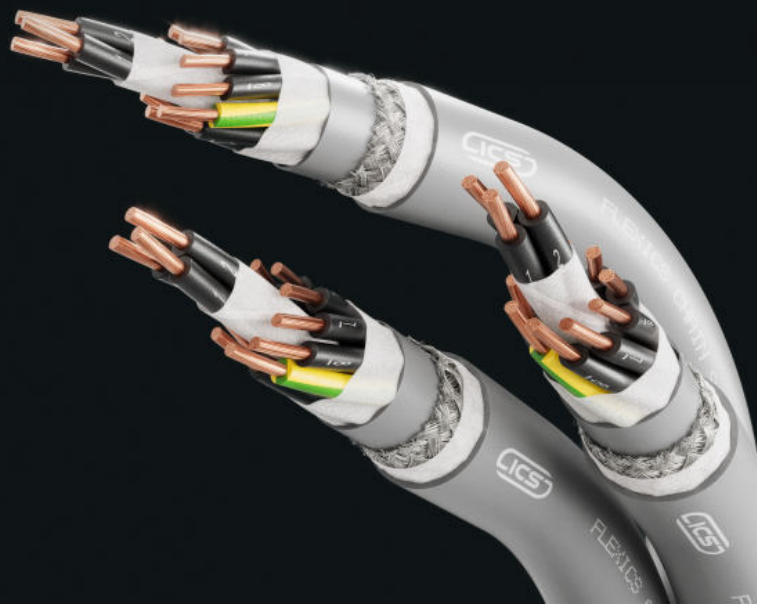
We Supply
Reliable
Solutions

FLEXICS® CHAIN 99111C

PP/PUR drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

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 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

Test Voltage
4000 V / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending cycles
5 million

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

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant

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 (mm^2)	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	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	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	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
18 G 2.5	24	562	989
25 G 2.5	28.2	778	1382
4 x 4	13.7	238	348
5 G 4	15.3	280	420
7 G 4	20	352	651
4 G 6	16.1	318	499
7 G 6	23	528	844
4 G 10	22.5	485	1052

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
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

CONTACT PERSON

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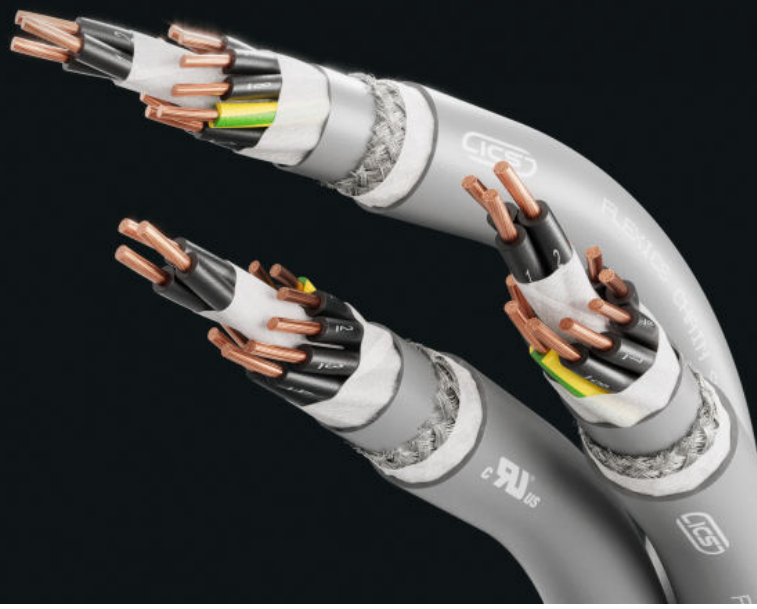
FLEXICS® CHAIN 99111C UL/c(UL)



UL recognized PP/PUR drag chain cable, screened

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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

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