



2YSL(St)CY-J 0.6/1 kV EMV

PE/PVC motor power supply cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

These double screened motor supply and frequency converter cables 2YSL(St)CY-J were designed as supply and connecting cables, for medium mechanical stress, fixed installation and occasionally non-guided movements, in dry, damp and wet rooms. UV-resistant black sheath is designed for outdoor applications. Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 5 x Ø of cable
Flexible use: 15 x Ø of cable



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



Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 70°C
Fixed installation: -30°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 polyethylene (PE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 2YSL(St)CYK-J or transparent for 2YSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 1.5	10.6	95	244
4 G 2.5	12.3	150	318
4 G 4	14.0	235	513
4 G 6	16.1	320	670
4 G 10	19.7	533	914
4 G 16	23.0	789	1367
4 G 25	27.3	1236	1970
4 G 35	30.3	1662	2763
4 G 50	35.0	2345	3126
4 G 70	40.0	3196	4182
4 G 95	45.0	4316	5725

CONTACT PERSON

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2YSL(St)CYK-J 0.6/1 kV EMV-3 PLUS

PE/PVC motor power supply cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

These double screened motor supply and frequency converter cables 2YSL(St)CYK-J were designed as supply and connecting cables, for medium mechanical stress, fixed installation and occasionally non-guided movements, in dry, damp and wet rooms. UV-resistant black sheath is designed for outdoor applications. Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 5 x Ø of cable
Flexible use: 15 x Ø of cable



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



Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 70°C
Fixed installation: -30°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 polyethylene (PE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 2YSL(St)CYK-J or transparent for 2YSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
3 x 1.5 + 3 G 0.25	10.2	91	212
3 x 2.5 + 3 G 0.5	11.8	152	276
3 x 4 + 3 G 0.75	13.4	224	446
3 x 6 + 3 G 1	15.3	298	582
3 x 10 + 3 G 1.5	18.6	491	794
3 x 16 + 3 G 2.5	21.5	723	1188
3 x 25 + 3 G 4	25.5	1138	1713
3 x 35 + 3 G 6	28.3	1535	2402
3 x 50 + 3 G 10	33.0	2208	2718
3 x 70 + 3 G 10	37.0	2871	3636
3 x 95 + 3 G 16	41.0	3953	4978
3 x 120 + 3 G 16	43.8	4836	5077

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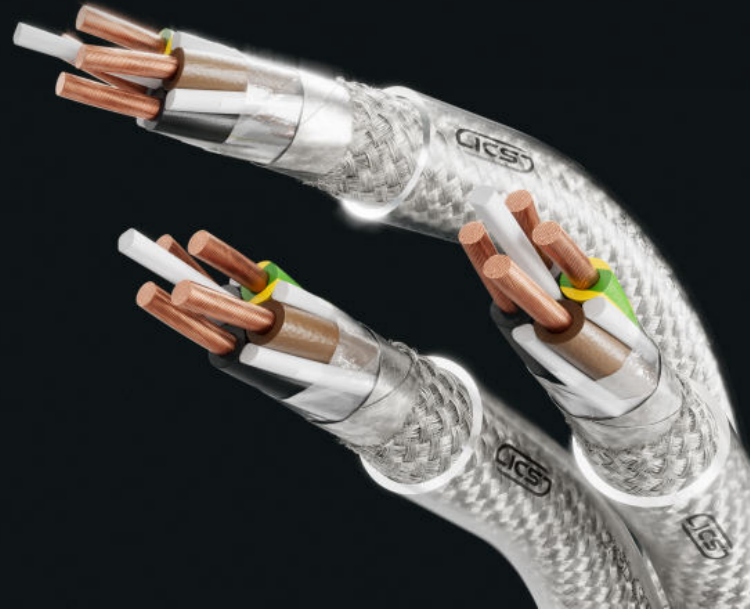


2XSL(St)CY-J 0.6/1 kV EMV

XLPE/PVC motor power supply cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

2XSL(St)CY-J double screened motor supply and frequency converter cables were designed as supply and connecting cables for medium mechanical stress, fixed installation and non-guided movements in dry, damp and wet rooms. Black UV-resistant version is designed for outdoor applications. XLPE insulation improves transmission characteristics and allows transmission of higher power when using same cross sections. Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 5 x Ø of cable
Flexible use: 15 x Ø of cable



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

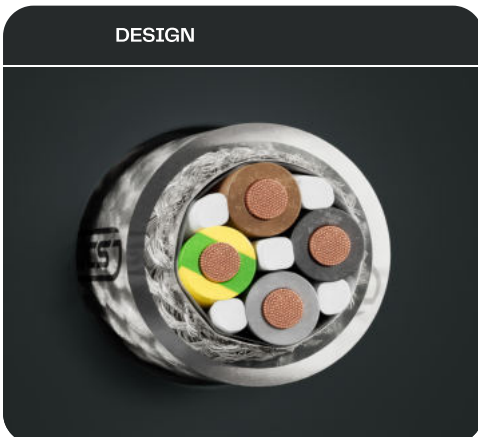


Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 90°C
Fixed installation: -30°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 cross-linked polyethylene (XLPE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 2XSL(St)CYK-J or transparent for 2XSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 1.5	10.6	95	244
4 G 2.5	12.3	150	318
4 G 4	14.0	235	513
4 G 6	16.1	320	670
4 G 10	19.7	533	914
4 G 16	23.0	789	1367
4 G 25	27.3	1236	1970
4 G 35	30.3	1662	2763
4 G 50	35.0	2345	3126
4 G 70	40.0	3196	4182
4 G 95	45.0	4316	5725

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We Supply
Reliable
Solutions



2XSL(St)CYK-J 0.6/1 kV EMV-3 PLUS

XLPE/PVC motor power supply cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

2XSL(St)CYK-J double screened motor supply and frequency converter cables were designed as supply and connecting cables for medium mechanical stress, fixed installation and non-guided movements in dry, damp and wet rooms. Black UV-resistant version is designed for outdoor applications. XLPE insulation improves transmission characteristics and allows transmission of higher power when using same cross sections. Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 5 x Ø of cable
Flexible use: 15 x Ø of cable



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



Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 90°C
Fixed installation: -30°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 cross-linked polyethylene (XLPE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 2XSL(St)CYK-J or transparent for 2XSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
3 x 1.5 + 3 G 0.25	10.2	91	212
3 x 2.5 + 3 G 0.5	11.8	152	276
3 x 4 + 3 G 0.75	13.4	224	446
3 x 6 + 3 G 1	15.3	298	582
3 x 10 + 3 G 1.5	18.6	491	794
3 x 16 + 3 G 2.5	21.5	723	1188
3 x 25 + 3 G 4	25.5	1138	1713
3 x 35 + 3 G 6	28.3	1535	2402
3 x 50 + 3 G 10	33.0	2208	2718
3 x 70 + 3 G 10	37.0	2871	3636
3 x 95 + 3 G 16	41.0	3953	4978
3 x 120 + 3 G 16	43.8	4836	5077

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We Supply
Reliable
Solutions



2XSL(St)CH-J 0.6/1 kV EMV

XLPE/FRNC motor power supply cable, halogen-free, screened

AUTOMATION AND MOTOR SUPPLY CABLES

These double screened 2XSL(St)CH-J cables were designed as supply and connecting cables, for medium mechanical stress, for fixed installation and occasionally non-guided movements, in dry and damp rooms, especially where human life or valuable property are exposed to a high risk of fire hazards.

Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 15 x Ø of cable



Fire properties
EN 60332-1-2: self-extinguishing and flame retardant
EN 60332-3-24 (Category C): reduced flame propagation
EN 61034: smoke density
EN 60754: halogen-free
CPR classification: Dca

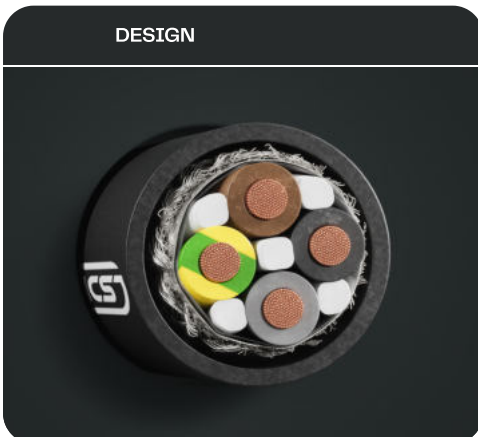


Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 90°C
Fixed installation: -30°C up to 80°C

DESIGN



- 1 Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of cross-linked polyethylene (XLPE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special flame retardant non-corrosive compound (FRNC), colour: black (RAL 9005)

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 1.5	10.6	95	244
4 G 2.5	12.3	150	318
4 G 4	14.0	235	513
4 G 6	16.1	320	670
4 G 10	19.7	533	914
4 G 16	23.0	789	1367
4 G 25	27.3	1236	1970
4 G 35	30.3	1662	2763
4 G 50	35.0	2345	3126
4 G 70	40.0	3196	4182
4 G 95	45.0	4316	5725

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We Supply
Reliable
Solutions



2XSL(St)CH-J 0.6/1 kV EMV-3 PLUS

XLPE/FRNC motor power supply cable, halogen-free, screened

AUTOMATION AND MOTOR SUPPLY CABLES

These double screened 2XSL(St)CH-J cables were designed as supply and connecting cables, for medium mechanical stress, for fixed installation and occasionally non-guided movements, in dry and damp rooms, especially where human life or valuable property are exposed to a high risk of fire hazards.

Double screening considerably improves electromagnetic compatibility (EMC) in buildings and plants.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 7.5 x Ø of cable
Flexible use: 15 x Ø of cable



Fire properties
EN 60332-1-2: self-extinguishing and flame retardant
EN 60332-3-24 (Category C): reduced flame propagation
EN 61034: smoke density
EN 60754: halogen-free
CPR classification: Dca



Core identification
Colours according to CENELEC HD 308 S2



Temperature range
Conductor temperature: max. 90°C
Fixed installation: -30°C up to 80°C

DESIGN



- 1 Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of cross-linked polyethylene (XLPE)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special flame retardant non-corrosive compound (FRNC), colour: black (RAL 9005)

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
3 x 1.5 + 3 G 0.25	10.2	91	212
3 x 2.5 + 3 G 0.5	11.8	152	276
3 x 4 + 3 G 0.75	13.4	224	446
3 x 6 + 3 G 1	15.3	298	582
3 x 10 + 3 G 1.5	18.6	491	794
3 x 16 + 3 G 2.5	21.5	723	1188
3 x 25 + 3 G 4	25.5	1138	1713
3 x 35 + 3 G 6	28.3	1535	2402
3 x 50 + 3 G 10	33.0	2208	2718
3 x 70 + 3 G 10	37.0	2871	3636
3 x 95 + 3 G 16	41.0	3953	4978
3 x 120 + 3 G 16	43.8	4836	5077

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9YSL(St)CY-J 0.6/1 kV EMV UL/c(UL)

UL recognized PP/PVC motor power supply cable,
screened

AUTOMATION AND MOTOR SUPPLY CABLES

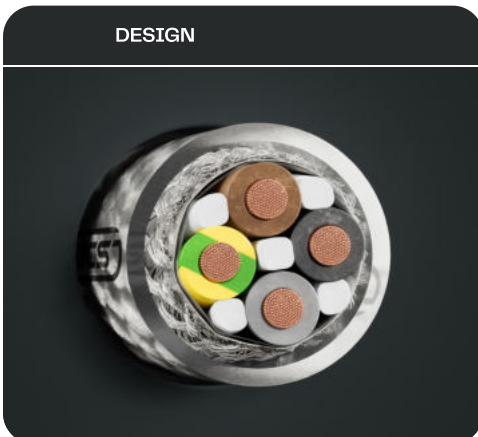
Double screened flexible motor supply cables with special EMC-performance, with low capacitance design and PVC sheath. Contrary to usage of PVC insulated cables, PP insulated cables show significant reduction of useless reactive power always needed for charging and discharging the cable during operating of the frequency converter.



TECHNICAL DATA

Standard DIN VDE 0276-603	Bending radius (min.) Fixed installation: 5x ϕ of cable Flexible use: 15 x ϕ of cable	Core identification Colours according to CENELEC HD 308 S2
Certificate UL AWM Style 2570 CSA C22.2 No. 210-11, AWM	Fire properties EN 60332-1-2: self-extinguishing and flame retardant UL: vertical flame test VW-1, cable flame test CSA: FT1	Temperature range Conductor temperature: max. 80°C Fixed installation: -40°C up to 80°C Flexible use: -5°C up to 80°C
Test Voltage 4000 V / 50 Hz		
Rated Voltage 0.6/1 kV (Uo/U) 1000 V (UL/CSA)		

DESIGN



- 1 Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of polypropylene compound (PP)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 9YSL(St)CYK-J or transparent for 9YSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 1.5	10.5	87	151
4 G 2.5	11.8	133	207
4 G 4	13.3	213	272
4 G 6	14.9	298	371
4 G 10	17.7	460	557
4 G 16	21.5	707	1218
4 G 25	26.3	1100	1367
4 G 35	29.7	1542	1763
4 G 50	35.8	2206	2318
4 G 70	40.9	3002	3253
4 G 95	44.6	4004	4201

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9YSL(St)CYK-J 0.6/1 kV EMV-3 PLUS UL/c(UL)

UL recognized PP/PVC motor power supply cable,
screened

AUTOMATION AND MOTOR SUPPLY CABLES

Double screened flexible motor supply cables with special EMC-performance, with low capacitance design and PVC sheath. Contrary to usage of PVC insulated cables, PP insulated cables show significant reduction of useless reactive power always needed for charging and discharging the cable during operating of the frequency converter.



TECHNICAL DATA



Standard
DIN VDE 0276-603



Certificate
UL AWM Style 2570 CSA C22.2 No.
210-11, AWM



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (Uo/U)
1000 V (UL/CSA)



Bending radius (min.)
Fixed installation: $5 \times \varnothing$ of cable
Flexible use: $15 \times \varnothing$ 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
Colours according to CENELEC HD 308
S2



Temperature range
Conductor temperature: max. 80°C
Fixed installation: -40°C up to 80°C
Flexible use: -5°C up to 80°C

DESIGN



- 1 Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of polypropylene compound (PP)
- 3 Cores are stranded together with optimal lay-length
- 4 Plastic tape separation (optional)
- 5 Plastic bonded aluminium tape and tinned copper wire braiding
- 6 Outer sheath of special compound of polyvinyl chloride (PVC), colour: black (RAL 9005) for 9YSL(St)CYK-J or transparent for 9YSL(St)CY-J

Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
3 x 1.5 + 3 G 0.25	11.4	88	140
3 x 2.5 + 3 G 0.5	12.9	130	220
3 x 4 + 3 G 0.75	13.6	224	323
3 x 6 + 3 G 1	15.2	276	420
3 x 10 + 3 G 1.5	17.4	511	615
3 x 16 + 3 G 2.5	20.0	751	819
3 x 25 + 3 G 4	24.3	1204	1325
3 x 35 + 3 G 6	27.5	1535	1718
3 x 50 + 3 G 10	31.1	2156	2399
3 x 70 + 3 G 10	37.1	2980	3056
3 x 95 + 3 G 16	40.0	3953	4162
3 x 120 + 3 G 16	42.6	4836	5074

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FLEXICS® SERVO

PVC/PVC servo-motor supply cable, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

PVC/PVC connection cable especially for frequency converters and servo motors. FLEXICS® SERVO cable are designed for fixed or flexible indoor installations without guidance and/or tensile stress.



TECHNICAL DATA



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 7.5 x ϕ of cable
Flexible use: 20 x ϕ of cable



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

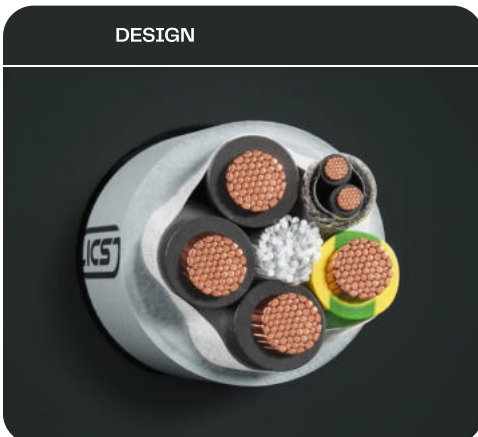


Core identification
Supply cores: black (continuously numbered) with green/yellow ground conductor
Control pairs 0.34 mm²: colour coded
Control pairs from 0.75 mm²: black with white numbers



Temperature range
Fixed installation: -30°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 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires. Aluminium tape is not applied for 1-pair versions
- 4 Cores are stranded together with optimal lay-length
- 5 Non-woven tape separation
- 6 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)
4 G 0.75 + 2 x (2 x 0.34)	9.6	92	133
4 G 1.5 + 2 x (2 x 0.75)	12.4	101	225
4 G 1.5 + (2 x 0.75)	11.6	98	184
5 G 1.5 + (2 x 0.75)	12.6	110	213
7 G 1.5 + (2 x 0.75)	12.8	144	251
5 G 2.5 + (2 x 0.75)	14.5	159	297
7 G 2.5 + (2 x 0.75)	15.5	216	373
4 G 2.5 + 2 x (2 x 0.75)	13.7	142	275
4 G 2.5 + (2 x 0.75)	13.2	139	246
4 G 4 + (2 x 0.75 + 2 x 1)	15.4	218	369
4 G 6 + (2 x 0.75 + 2 x 1)	16.6	295	458
4 G 10 + (2 x 0.75 + 2 x 1)	20.4	448	705
4 G 16 + (2 x 2 x 1)	23.2	669	976
4 G 25 + (2 x 2 x 1.5)	29.0	1060	1524

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FLEXICS® SERVO C

PVC/PVC servo-motor supply cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

PVC/PVC connection cable especially for frequency converters and servo motors. FLEXICS® SERVO C cable are designed for fixed or flexible indoor installations without guidance and/or tensile stress, especially when excellent EMC behaviour is required.



TECHNICAL DATA



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending radius (min.)
Fixed installation: 7.5 x ϕ of cable
Flexible use: 20 x ϕ of cable



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

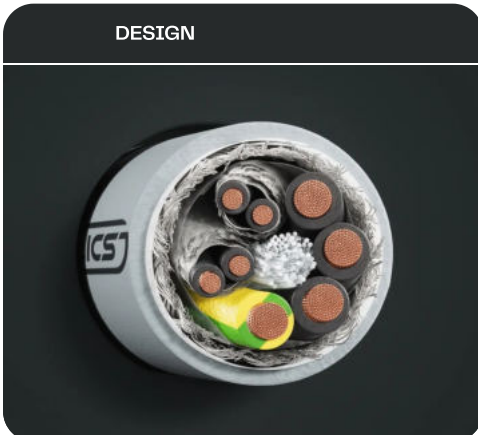


Core identification
Supply cores: black (continuously numbered) with green/yellow ground conductor
Control pairs 0.34 mm²: colour coded
Control pairs from 0.75 mm²: black with white numbers



Temperature range
Fixed installation: -30°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 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores are stranded together with optimal lay-length
- 5 Plastic tape
- 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)
4 G 0.75 + 2 x (2 x 0.34)	10.2	111	157
4 G 1.5 + 2 x (2 x 0.75)	13.2	148	274
4 G 2.5 + (2 x 2 x 0.75)	14.7	226	333
4 G 4 + (2 x 0.75 + 2 x 1)	16.2	304	424
4 G 6 + (2 x 0.75 + 2 x 1)	17.8	379	553
4 G 10 + (2 x 0.75 + 2 x 1)	21.6	592	815
4 G 16 + (2 x 2 x 1)	24.1	861	1088
4 G 25 + (2 x 2 x 1.5)	29.7	1262	1665

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We Supply
Reliable
Solutions



FLEXICS® SERVO UL/c(UL)

UL recognized PVC/PVC servo-motor supply cable,
unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

PVC/PVC connection cable especially for frequency converters and servo motors. FLEXICS® SERVO UL/c(UL) cable are designed for fixed or flexible indoor installations without guidance and/or tensile stress.



TECHNICAL DATA



Certificate

UL AWM Style 20886
CSA C22.2 No. 210-11, AWM



Test Voltage

4000 V / 50 Hz



Rated Voltage

0.6/1 kV (U₀/U)
1000 V (UL/CSA)



Bending radius (min.)

Fixed installation: 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

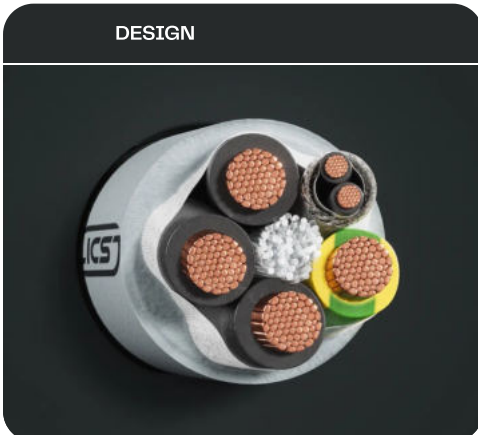
Supply cores: black (continuously numbered) with green/yellow
ground conductor
Control pairs 0.34 mm²: colour coded
Control pairs from 0.75 mm²: black with white numbers



Temperature range

Fixed installation: -30°C up to 80°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 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires. Aluminium tape is not applied for 1-pair versions
- 4 Cores are stranded together with optimal lay-length
- 5 Non-woven tape separation
- 6 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)
4 G 0.75 + 2 x (2 x 0.34)	11.6	92	201
4 G 1.5 + (2 x 0.75)	13	98	230
5 G 1.5 + (2 x 0.75)	13.8	110	258
7 G 1.5 + (2 x 0.75)	13.9	144	299
4 G 1.5 + 2 x (2 x 0.75)	14	101	294
4 G 2.5 + (2 x 0.75)	14.4	139	294
5 G 2.5 + (2 x 0.75)	15.5	159	349
7 G 2.5 + (2 x 0.75)	16.4	216	429
4 G 2.5 + (2 x 2 x 0.75)	15.1	142	349
4 G 4 + (2 x 0.75 + 2 x 1)	16.8	218	443
4 G 6 + (2 x 0.75 + 2 x 1)	18	295	532
4 G 10 + (2 x 0.75 + 2 x 1)	21.7	448	799
4 G 16 + (2 x 2 x 1)	24.4	669	1078
4 G 25 + (2 x 2 x 1.5)	30.1	1060	1713

CONTACT PERSON

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FLEXICS® SERVO C UL/c(UL)

UL recognized PVC/PVC servo-motor supply cable,
screened

AUTOMATION AND MOTOR SUPPLY CABLES

PVC/PVC connection cable especially for frequency converters and servo motors. FLEXICS® SERVO C UL/c(UL) cable are designed for fixed or flexible indoor installations without guidance and/or tensile stress, especially when excellent EMC behaviour is required.



TECHNICAL DATA



Certificate

UL AWM Style 20886
CSA C22.2 No. 210-11, AWM



Test Voltage

4000 V / 50 Hz



Rated Voltage

0.6/1 kV (U₀/U)
1000 V (UL/CSA)



Bending radius (min.)

Fixed installation: 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

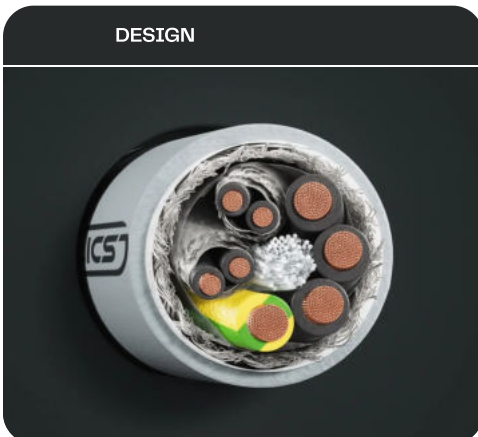
Supply cores: black (continuously numbered) with green/yellow
ground conductor
Control pairs 0.34 mm²: colour coded
Control pairs from 0.75 mm²: black with white numbers



Temperature range

Fixed installation: -30°C up to 80°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 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores are stranded in layers with optimal lay-length
- 5 Plastic tape separation
- 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)
4 G 0.75 + 2 x (2 x 0.34)	12.4	111	225
4 G 1.5 + 2 x (2 x 0.75)	14.8	148	343
4 G 2.5 + (2 x 2 x 0.75)	16.1	226	407
4 G 4 + (2 x 0.75 + 2 x 1)	17.6	304	498
4 G 6 + (2 x 0.75 + 2 x 1)	19.2	379	627
4 G 10 + (2 x 0.75 + 2 x 1)	23	592	909
4 G 16 + (2 x 2 x 1)	25.1	861	1190
4 G 25 + (2 x 2 x 1.5)	28.7	1262	1854
4 G 35 + (2 x 2 x 1.5)	30.6	1652	2023
4 G 50 + (2 x 2 x 2.5)	37	2264	2876

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We Supply
Reliable
Solutions



FLEXICS® CHAIN SERVO 911

PP/PUR servo-motor supply cable, halogen-free for
drag chain application, unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Highly flexible PP/PUR connection cable for frequency converters and servo motors, especially for continuous moving machine parts, e.g. within C-tracks. FLEXICS® CHAIN SERVO 911 cables are designed for indoor applications when exposed to high mechanical stress and increased resistance against a wide range of oils, greases, coolants and lubricants.



TECHNICAL DATA



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending cycles
5 million



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



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



Core identification
Supply cores: black (continuously numbered) with green/yellow ground conductor
control cores: black with number printing



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 special compound based on polypropylene (PP)
- 3 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores stranded together in short lay-lengths
- 5 Non-woven tape separation
- 6 Special polyurethane (PUR) outer sheath, colour: orange (RAL 2003) or 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)
4 G 1.5 + 2 x (2 x 0.75)	14	96	235
4 G 1.5 + (2 x 1)	12	87	186
4 G 2.5 + 2 x (2 x 0.75)	14.6	134	291
4 G 2.5 + (2 x 1)	12.7	125	241
4 G 4 + (2 x 0.75) + (2 x 1)	16.1	206	370
4 G 4 + (2 x 1)	14.8	182	326
4 G 6 + (2 x 0.75) + (2 x 1)	17.6	283	472
4 G 6 + (2 x 1)	16.4	259	433

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We Supply
Reliable
Solutions



FLEXICS® CHAIN SERVO 911C

PP/PUR servo-motor supply cable, halogen-free for
drag chain application, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Highly flexible PP/PUR connection cable for frequency converters and servo motors, especially for continuous moving machine parts, e.g. within C-tracks. FLEXICS® CHAIN SERVO 911C cables are designed for indoor applications when exposed to high mechanical stress and increased resistance against a wide range of oils, greases, coolants and lubricants. Excellent EMC behavior.



TECHNICAL DATA



Test Voltage
4000 V / 50Hz



Rated Voltage
0.6/1 kV (U₀/U)



Bending cycles
5 million



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



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



Core identification
Supply cores: black (continuously numbered) with green/yellow ground conductor
control cores: black with number printing



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 polypropylene (PP)
- 3 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores stranded together in short lay-lengths
- 5 Wrapping with plastic tape
- 6 Tinned copper wire braiding
- 7 Non-woven wrapping over braiding
- 8 Special polyurethane (PUR) outer sheath, colour: orange (RAL 2003) or 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)
4 G 1.5 + 2 x (2 x 0.75)	15.6	150	304
4 G 1.5 + (2 x 1)	13.3	131	242
4 G 2.5 + 2 x (2 x 0.75)	15.8	190	356
4 G 2.5 + (2 x 1)	13.9	175	295
4 G 4 + (2 x 0.75) + (2 x 1)	17.3	267	434
4 G 4 + (2 x 1)	15.9	238	373
4 G 6 + (2 x 0.75) + (2 x 1)	18.8	371	537
4 G 6 + (2 x 1)	17.2	318	470

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We Supply
Reliable
Solutions



FLEXICS® CHAIN SERVO 911 UL/c(UL)

UL recognized PP/PUR servo-motor supply cable,
halogen-free for drag chain application,
unscreened

AUTOMATION AND MOTOR SUPPLY CABLES

Highly flexible PP/PUR connection cable for frequency converters and servo motors, especially for continuous moving machine parts, e.g. within C-tracks. FLEXICS® CHAIN SERVO 911 UL/c(UL) cables are designed for indoor applications when exposed to high mechanical stress and increased resistance against a wide range of oils, greases, coolants and lubricants.



TECHNICAL DATA



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



Test Voltage
4000 V / 50 Hz



Rated Voltage
0.6/1 kV (U₀/U)
1000 V (UL/CSA)



Bending cycles
5 million



Bending radius (min.)
Fixed installation: 5 x ϕ of cable
Flexible use: 7.5x ϕ 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
Supply cores: black (continuously
numbered) with green/yellow ground
conductor
control cores: black with white number
printing



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 special compound based on polypropylene (PP)
- 3 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores stranded together in short lay-lengths
- 5 Non-woven tape separation
- 6 Special polyurethane (PUR) outer sheath, colour: orange (RAL 2003) or 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)
4 G 1.5 + (2 x 1.5)	11.9	99	215
4 G 2.5 + (2 x 1.5)	13.1	134	268
4 G 4 + (2 x 1.5)	14.3	195	326
4 G 6 + (2 x 1.5)	16.2	272	410
4 G 10 + (2 x 1.5)	18.6	425	580
4 G 16 + (2 x 1.5)	22.5	656	887
4 G 1.5 + 2 x (2 x 0.75)	12.5	103	215
4 G 2.5 + 2 x (2 x 0.75)	14.3	134	306
4 G 2.5 + 2 x (2 x 1.0)	14.5	152	312
4 G 4 + (2 x 1) + (2 x 1.5)	15.8	231	392
4 G 6 + (2 x 1) + (2 x 1.5)	17.3	308	465

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UL recognized PP/PUR servo-motor supply cable,
halogen-free for drag chain application, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Highly flexible PP/PUR connection cable for frequency converters and servo motors, especially for continuous moving machine parts, e.g. within C-tracks. FLEXICS® CHAIN SERVO 911C UL/c(UL) cables are designed for indoor applications when exposed to high mechanical stress and increased resistance against a wide range of oils, greases, coolants and lubricants. Excellent EMC behavior.



TECHNICAL DATA



Certificate

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



Test Voltage

4000 V / 50 Hz



Rated Voltage

0.6/1 kV (U₀/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

Supply cores: black (continuously
numbered) with green/yellow ground
conductor
control cores: black with white number
printing



Temperature range

Fixed installation: -50°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 polypropylene (PP)
- 3 Control pairs individually screened with plastic laminated aluminium tape and tinned copper wires
- 4 Cores stranded together in short lay-lengths
- 5 Wrapping with plastic tape
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Number of cores x nominal cross-section (mm ²)	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
4 G 1.5 + 2 x (2 x 0.75)	15.6	150	304
4 G 1.5 + (2 x 1)	13.3	131	242
4 G 2.5 + 2 x (2 x 0.75)	15.8	190	356
4 G 2.5 + (2 x 1)	13.9	175	295
4 G 4 + (2 x 0.75) + (2 x 1)	17.3	267	434
4 G 4 + (2 x 1)	15.9	238	373
4 G 6 + (2 x 0.75) + (2 x 1)	18.8	371	537
4 G 6 + (2 x 1)	17.2	318	470
4 G 10 + (2 x 1) + (2 x 1.5)	21.8	610	819
4 G 16 + 2 x (2 x 1.5)	25.5	801	1135
4 G 25 + 2 x (2 x 1.5)	28.8	1187	1559
4 G 35 + 2 x (2 x 1.5)	30.9	1588	2093
4 G 50 + 2 x (2 x 2.5)	36.3	2557	2920

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