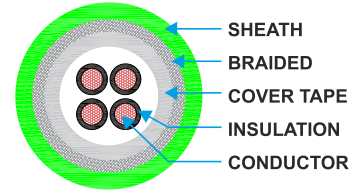




Servo Cables

PVC Servo Shielded Cable 0.6 / 1 KV



1901 - Servo Cables

Application

- Motor connecting and power supply cable in machine engineering, transport and conveyor technology, HVAC technology.
- In dry and damp rooms
- Cable with integrated, shielded measurement circuit cable for motor protector devices.
- For flexible application without continuous flexible.

Properties

- High interference resistance (EMC)
- PVC flame retardant, self-extinguishing
- Good resistant to oils, grease, acids and bases.
- Silicone free
- RoHS compliant.
- Flammability : Acc. to IEC 60332-1-2

Construction

- Bare copper, fine wire conductors, as per EN 60228 Cl.5
- PVC core insulation TI2, to EN 50363-3
- Harmonised core colour to HD 308 (Refer Appendix Table No. 1-1)
- Cores stranded in layers with optimal lay-length
- Tinned copper braided with coverage > 85%.
- PVC outer sheath TM2, to EN 50363-4.1

Technical Parameter

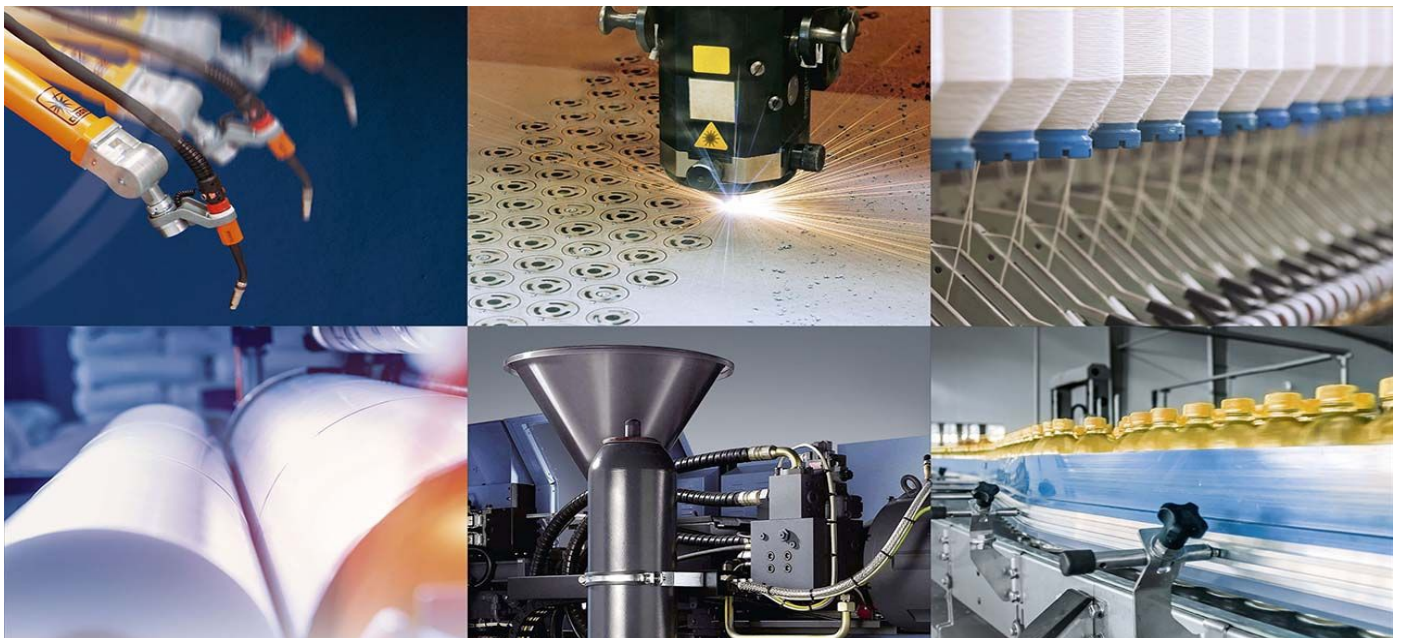
- Voltage grade : 600 / 1000V
- Test voltage : 4000V
- Insulation resistance : 20 MOhm-Km
- Temperature range : -5°C to +70°C
- Bending radius : Flexing - 10D & Fixed - 4D

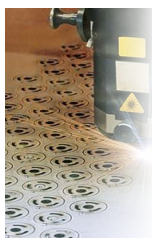


Dimension

Part code	No. core X CS Area	Outer Diameter	Cable Wt. Approx.
	Sq. mm	mm	kg/km
1901B040015	4G*1.5	11.50	217
1901B040025	4G*2.5	13.30	316
1901B040040	4G*4	15.30	407
1901B040060	4G*6	17.60	521
1901B040100	4G*10	21.10	866
1901B040160	4G*16	24.50	1200
1901B040250	4G*25	29.40	1820
1901B040350	4G*35	32.20	2399

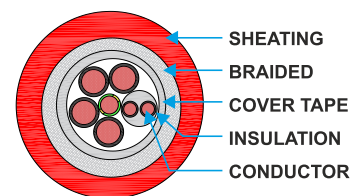
Note : G = Green Yellow core





Servo Cables

PVC Servo Shielded Cable 0.6 / 1 KV with Control Pairs



Application

- Especially for frequency converters and servo drives in machine plant construction.
- Continuous flexing applications in “C” tracks
- Very good resistance against Aggressive coolants and lubricants.
- Industrial environments in mechanical and system engineering.

Properties

- High interference resistance (EMC).
- Braid shield optimized for continuous flexible use.
- Good bending strength.
- Low adhesion, abrasion resistance nick resistance, tear propagation resistance.
- Grease, oil, alcohol-free, UV-resistant, silicon-free, ROHS compliant.

Construction

- Conductor : Bare copper, class-6, IEC – 60228.
- Insulation : Special TPM / PP
- Power conductor black with numbered print, ground green/yellow. (G)
- Pair color black and white with a braided shield and foil tape,
- Cores stranded in layers with optimal lay-length
- Tinned copper braided with coverage > 85%.
- Sheath: PVC - adhesion-free surface, Colour : Orange.

Technical Parameter

- Nominal voltage : 1000V 80°C
- Voltage grade : 600/1000V - Power & 500V - Shielded Pair
- Test voltage : 4kv
- Temp range : - 40°C to + 80°C
- Bending radius : 15 x D - flexing & 6 x D - fixed
- Flammability : IEC 60332-1-2, UL 1581 VW-1
- Halogen free : EN- 50267-2-1



1902 - Servo Cables

Construction without Signal Wire

Part code	No. of Core x Sq. mm	Outer Diameter mm	Cable Weight kg/km
1902B040015	4G x 1.5	8.40	130
1902B040025	4G x 2.5	10.6	219
1902B040040	4G x 4	11.5	312
1902B040060	4G x 6	13.2	380
1902B040100	4G x 10	16.5	620
1902B040160	4G x 16	21.2	1060
1902B040250	4G x 25	25.0	1650
1902B040350	4G x 35	31.8	2310

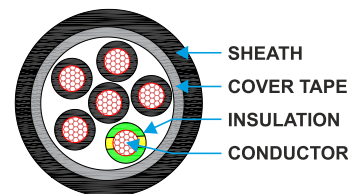
Assembly with 1 Signal Pair =P

Part code	No. of Core x Sq. mm	Outer Diameter mm	Cable Weight kg/km
1902B040015P	4G*1.5+2*1.5	11.6	248
1902B040025P	4G*2.5+2*1.5	13.0	310
1902B040040P	4G*4+2*1.5	14.0	445
1902B040060P	4G*6+2*1.5	16.0	554
1902B040100P	4G*10+2*1.5	18.5	806
1902B040160P	4G*16+2*1.5	23.6	1085
1902B040250P	4G*25+2*1.5	28.5	1685



Servo Cables

PVC Servo Unshielded Cable 300V / 500V



1903 - Servo Cables

Application

This cable is designed to connect frequency converters and servo motors and is suitable for both fixed installations and occasional flexing without any tensile strain. It can be used in both dry and damp rooms and is suitable for medium mechanical stress. The PVC outer sheath of the cable is resistant to acids and alkalis and has limited oil resistance. It can be used outdoors too, but only within a specific temperature range.

Properties

- PVC self-extinguishing and flame retardant according to EN 60332-1-2
- This cable is also available with UV resistance property, ASTM G 154

Construction

- Bare copper, fine wire conductors according to EN 60228 Cl. 6
- Core insulation of special PVC T12 EN 50363-3
- Black core with continuous white numbering according to DIN VDE 0293. Green-yellow earth core in the outer layer (3 cores and above). Non-woven wrapping
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC, TM2 to DIN/BS EN 50363-4.1
- Colour grey (RAL 7001)

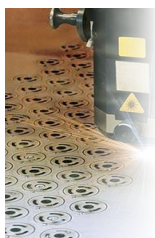
Technical Parameter

- Standard : Requirement adapted to DIN VDE 0245, 0281
- Temperature range : Flexing -5°C to +80°C.
Fixed installation -30°C to +80°C
- Nominal voltage : U0 / U 300 / 500V
- Test voltage : 2000V
- Insulation resistance : Min. 20 GΩ x cm
- Minimum bending radius : Flexing 7.5 x cable ø. Fixed installation 4 x cable ø



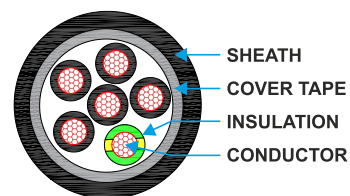
Dimension

Part Code	No. of Cores & C.S. Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Cable Weight (kg/km)
1903B020005	2 x 0.5	5.3	39
1903B030005	3G 0.5	5.7	48
1903B040005	4G 0.5	6.3	60
1903B050005	5G 0.5	6.8	71
1903B070005	7G 0.5	8.0	99
1903B120005	12G 0.5	9.5	147
1903B180005	18G 0.5	11.4	214
1903B250005	25G 0.5	13.7	306
1903B300005	30G 0.5	14.3	344
1903B340005	34G 0.5	15.6	403
1903B500005	50G 0.5	18.5	574
1903B020007	2 x 0.75	5.7	48
1903B030007	3G 0.75	6.2	60
1903B040007	4G 0.75	6.8	75
1903B050007	5G 0.75	7.4	90
1903B070007	7G 0.75	8.9	129
1903B120007	12G 0.75	10.6	194
1903B160007	16G 0.75	12.0	253
1903B180007	18G 0.75	12.7	283
1903B250007	25G 0.75	15.2	402
1903B020010	2 x 1	6.1	57
1903B030010	3G 1	6.6	72
1903B040010	4G 1	7.3	90
1903B050010	5G 1	8.0	110
1903B070010	7G 1	9.6	157
1903B120010	12G 1	11.4	237
1903B140010	14G 1	12.3	276
1903B160010	16G 1	13.0	311
1903B180010	18G 1	13.9	353
1903B250010	25G 1	16.4	491
1903B260010	26G 1	16.4	498
1903B340010	34G 1	18.9	658
1903B410010	41G 1	20.6	786
1903B500010	50G 1	22.3	936
1903B650010	65G 1	25.4	1215
1903B020015	2 x 1.5	6.8	75



Servo Cables

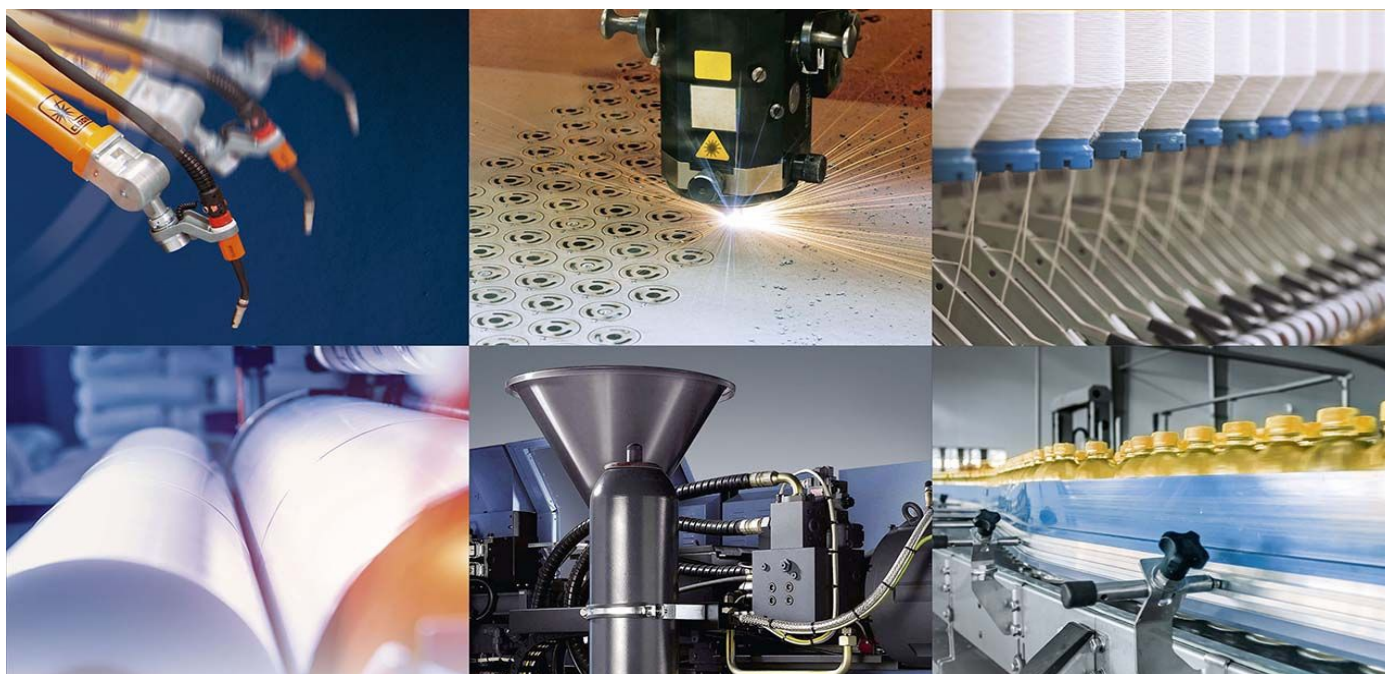
PVC Servo Unshielded Cable 300V / 500V



Dimension

Part Code	No. of Cores & C.S. Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Cable Weight (kg/km)
1903B030015	3G 1.5	7.4	96
1903B040015	4G 1.5	8.1	119
1903B050015	5G 1.5	9.1	150
1903B070015	7G 1.5	9.9	189
1903B120015	12G 1.5	12.9	322
1903B180015	18G 1.5	15.0	456
1903B250015	25G 1.5	17.6	630
1903B260015	26G 1.5	17.8	649
1903B340015	34G 1.5	20.2	841
1903B410015	41G 1.5	22.0	1006
1903B420015	42G 1.5	22.0	1017
1903B020015	50G 1.5	24.0	1210
1903B030025	3G 2.5	9.0	148
1903B040025	4G 2.5	10.0	188
1903B050025	5G 2.5	11.2	235
1903B070025	7G 2.5	12.5	307
1903B120025	12G 2.5	16.0	513
1903B140025	14G 2.5	17.2	595
1903B030040	3G 4	10.6	217
1903B040040	4G 4	11.7	274
1903B050040	5G 4	13.1	343
1903B040060	4G 6	13.9	398
1903B050060	5G 6	15.5	496
1903B040100	4G 10	17.6	658
1903B050100	5G 10	19.6	819
1903B040160	4G 16	21.0	983

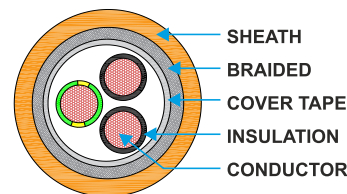
1903 - Servo Cables





Servo Cables

PUR Servo Shielded Cables 600V / 1000V



1904 - Servo Cables

Application

- Especially for frequency converters and servo drives
- Continuous flexing applications in "C" tracks
- Very good resistance against aggressive coolants and lubricants.
- Industrial environments in mechanical and system engineering.

Properties

- High resistance to interference from external magnetic (EMC).
- Braid shield optimized for continuous flexible use.
- Good bending strength.
- Low adhesion, abrasion resistance, tear propagation resistance.
- Grease, oil, alcohol-free, UV-resistant, silicon-free, ROHS compliant.

Construction

- Conductor : Bare copper, class-6, IEC – 60228.
- Insulation : Special TPE.
- Power conductor black with numbered print, ground green/yellow. (G)
- Cores stranded in layers with optimal lay-length
- Tinned copper braided with coverage > 85%.
- Sheath: PUR, colour: Orange

Technical Parameter

- Voltage grade : 600/1000V
- Test voltage : 4kv
- Temp range : - 30 to + 80°C fixed & - 5 to + 80°C flexing
- Bending radius : 6 to 10 x Diameter of cable
- Flame retardant : Acc. to EN 60332-1-2
- Halogen free : EN- 50267-2-1
- Insulation Resistance : Min. 20GOhm-cm



Construction without Signal Wire

Part code	No. of Core x Sq. mm	Outer Diameter mm	Cable Weight kg/km
1904B040010	4G x 1.0	7.40	108
1904B040015	4G x 1.5	8.60	117
1904B040025	4G x 2.5	10.8	173
1904B040040	4G x 4	12.2	245
1904B040060	4G x 6	14.0	365
1904B040100	4G x 10	17.6	549
1904B040160	4G x 16	21.2	849
1904B040250	4G x 25	25.0	1300
1904B040350	4G x 35	28.8	1700
1904B040500	4G x 50	33.9	2440

Assembly with 1 Signal Pair

Part code	#Core x Sq. mm	Outer Diameter mm	Cable Weight kg/km
1904B040015P	4G*1.5+2*1.5	11.4	210
1904B040025P	4G*2.5+2*1.5	12.9	235
1904B040040P	4G*4+2*1.5	14.5	320
1904B040060P	4G*6+2*1.5	16.1	430
1904B040100P	4G*10+2*1.5	19.5	680
1904B040160P	4G*16+2*1.5	23.6	956
1904B040250P	4G*25+2*1.5	28.5	1360
1904B040350P	4G*35+2*1.5	31.0	2740
1904B040500P	4G*50+2*1.5	34.5	3730