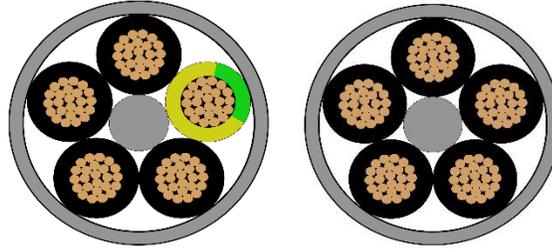


MachFlex 350YY

VDE Registered

Flexible PVC Control Cables



Application

Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more.

General Reference Standards

- DIN VDE 0295, IEC 60228, BS 6360
- IEC 60227-5, EN 50525-2-51, VDE 0281-13
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS, REACH & CE Directives

Construction & Performance

1	Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5 / IEC 60228 class 5)
2	Insulation Material & Color	PVC (Polyvinyl Chloride), DIN VDE 0293-1 (colour) A) All black colour with number coding = without protective earth conductor. OR B) Black colour with number coding and 1 GN/YE colour conductor = with protective earth conductor.
3	Jacket / Sheath Material	PVC (Polyvinyl Chloride) acc. to EN 50363-4-1 resp. VDE 0207-363-4-1
4	Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
5	Oil Resistance	DIN EN 50290-2-22 (TM54)
6	Voltage Rating (U₀/U)	300 / 500 V
7	Temperature Range	-15°C to +70°C (Occasional movement) -40°C to +80°C (Fixed installation)
8	Bending Radius	10 x OD (Occasional movement) 4 x OD (Fixed installation)
9	Test Voltage	4000 V
10	Other Properties	Good UV resistance, chemical resistance & flexibility

TABLE A

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2X0.5	2 X0.5	2	0.5	4.8	31
3X0.5	3 X0.5	3	0.5	5.1	38
3G0.5	3 G0.5	3	0.5	5.1	38
4X0.5	4 X0.5	4	0.5	5.6	49
4G0.5	4 G0.5	4	0.5	5.6	49
5X0.5	5 X0.5	5	0.5	6.2	60
5G0.5	5 G0.5	5	0.5	6.2	60
6X0.5	6 X0.5	6	0.5	6.8	72
7X0.5	7 X0.5	7	0.5	6.8	75
7G0.5	7 G0.5	7	0.5	6.8	75
8X0.5	8 X0.5	8	0.5	7.8	87
9X0.5	9 X0.5	9	0.5	8.5	100
9G0.5	9 G0.5	9	0.5	8.5	100
10X0.5	10 X0.5	10	0.5	8.9	114
10G0.5	10 G0.5	10	0.5	8.9	114
12X0.5	12 X0.5	12	0.5	9.2	126
12G0.5	12 G0.5	12	0.5	9.2	126
14X0.5	14 X0.5	14	0.5	9.7	144
14G0.5	14 G0.5	14	0.5	9.7	144
16X0.5	16 X0.5	16	0.5	10.3	164
16G0.5	16 G0.5	16	0.5	10.3	164
18X0.5	18 X0.5	18	0.5	10.9	184
18G0.5	18 G0.5	18	0.5	10.9	184
20X0.5	20 X0.5	20	0.5	11.6	199
20G0.5	20 G0.5	20	0.5	11.6	199
21G0.5	21 G0.5	21	0.5	11.6	206
24X0.5	24 X0.5	24	0.5	12.9	244
25G0.5	25 G0.5	25	0.5	12.9	249
35G0.5	35 G0.5	35	0.5	14.9	340
2X0.75	2 X0.75	2	0.75	5.2	41
3X0.75	3 X0.75	3	0.75	5.6	51
3G0.75	3 G0.75	3	0.75	5.6	51
4X0.75	4 X0.75	4	0.75	6.2	63
4G0.75	4 G0.75	4	0.75	6.2	63
5X0.75	5 X0.75	5	0.75	6.8	78
5G0.75	5 G0.75	5	0.75	6.8	78
7X0.75	7 X0.75	7	0.75	7.5	99
7G0.75	7 G0.75	7	0.75	7.5	99
9X0.75	9 X0.75	9	0.75	9.4	132
9G0.75	9 G0.75	9	0.75	9.4	132
10X0.75	10 X0.75	10	0.75	9.8	150
10G0.75	10 G0.75	10	0.75	9.8	150
12X0.75	12 X0.75	12	0.75	10.2	167
12G0.75	12 G0.75	12	0.75	10.2	167
14X0.75	14 X0.75	14	0.75	10.8	191

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
14G0.75	14 G0.75	14	0.75	10.8	191
16X0.75	16 X0.75	16	0.75	11.4	214
16G0.75	16 G0.75	16	0.75	11.4	214
18X0.75	18 X0.75	18	0.75	12.1	243
18G0.75	18 G0.75	18	0.75	12.1	243
20X0.75	20 X0.75	20	0.75	12.8	263
20G0.75	20 G0.75	20	0.75	12.8	263
2X1.0	2 X1.0	2	1.0	5.6	49
3X1.0	3 X1.0	3	1.0	6.0	60
3G1.0	3 G1.0	3	1.0	6.0	60
4X1.0	4 X1.0	4	1.0	6.6	75
4G1.0	4 G1.0	4	1.0	6.6	75
5X1.0	5 X1.0	5	1.0	7.3	93
5G1.0	5 G1.0	5	1.0	7.3	93
7X1.0	7 X1.0	7	1.0	8.0	118
7G1.0	7 G1.0	7	1.0	8.0	118
9X1.0	9 X1.0	9	1.0	10.1	158
9G1.0	9 G1.0	9	1.0	10.1	158
10X1.0	10 X1.0	10	1.0	10.5	179
10G1.0	10 G1.0	10	1.0	10.5	179
12X1.0	12 X1.0	12	1.0	10.9	200
12G1.0	12 G1.0	12	1.0	10.9	200
14X1.0	14 X1.0	14	1.0	11.5	230
14G1.0	14 G1.0	14	1.0	11.5	230
16X1.0	16 X1.0	16	1.0	12.2	270
16G1.0	16 G1.0	16	1.0	12.2	270
18X1.0	18 X1.0	18	1.0	12.9	291
18G1.0	18 G1.0	18	1.0	12.9	291
20X1.0	20 X1.0	20	1.0	13.7	316
20G1.0	20 G1.0	20	1.0	13.7	316
24X1.0	24 X1.0	24	1.0	15.3	388
2X1.5	2 X1.5	2	1.5	6.2	63
3X1.5	3 X1.5	3	1.5	6.6	79
3G1.5	3 G1.5	3	1.5	6.6	79
4X1.5	4 X1.5	4	1.5	7.3	99
4G1.5	4 G1.5	4	1.5	7.3	99
5X1.5	5 X1.5	5	1.5	8.1	124
5G1.5	5 G1.5	5	1.5	8.1	124
7X1.5	7 X1.5	7	1.5	8.9	159
7G1.5	7 G1.5	7	1.5	8.9	159
9X1.5	9 X1.5	9	1.5	11.2	211
9G1.5	9 G1.5	9	1.5	11.2	211
10X1.5	10 X1.5	10	1.5	11.7	240
10G1.5	10 G1.5	10	1.5	11.7	240
12X1.5	12 X1.5	12	1.5	12.2	269
12G1.5	12 G1.5	12	1.5	12.2	269
14X1.5	14 X1.5	14	1.5	12.9	317

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
14G1.5	14 G1.5	14	1.5	12.9	317
16X1.5	16 X1.5	16	1.5	13.6	360
16G1.5	16 G1.5	16	1.5	13.6	360
18X1.5	18 X1.5	18	1.5	14.4	404
18G1.5	18 G1.5	18	1.5	14.4	404
20X1.5	20 X1.5	20	1.5	15.3	428
20G1.5	20 G1.5	20	1.5	15.3	428
2X2.5	2 X2.5	2	2.5	7.7	96
3X2.5	3 X2.5	3	2.5	8.3	127
3G2.5	3 G2.5	3	2.5	8.3	127
4X2.5	4 X2.5	4	2.5	9.2	161
4G2.5	4 G2.5	4	2.5	9.2	161
5X2.5	5 X2.5	5	2.5	10.2	198
5G2.5	5 G2.5	5	2.5	10.2	198
7X2.5	7 X2.5	7	2.5	11.2	256
7G2.5	7 G2.5	7	2.5	11.2	256
9X2.5	9 X2.5	9	2.5	14.1	337
9G2.5	9 G2.5	9	2.5	14.1	337
10X2.5	10 X2.5	10	2.5	14.8	386
10G2.5	10 G2.5	10	2.5	14.8	386
12X2.5	12 X2.5	12	2.5	15.4	434
12G2.5	12 G2.5	12	2.5	15.4	434
14X2.5	14 X2.5	14	2.5	16.2	498
14G2.5	14 G2.5	14	2.5	16.2	498
16X2.5	16 X2.5	16	2.5	17.2	568
16G2.5	16 G2.5	16	2.5	17.2	568
18X2.5	18 X2.5	18	2.5	18.3	641
18G2.5	18 G2.5	18	2.5	18.3	641
19X2.5	19X2.5	19	2.5	18.3	659
19G2.5	19G2.5	19	2.5	18.3	659
20X2.5	20 X2.5	20	2.5	19.4	696
20G2.5	20 G2.5	20	2.5	19.4	696
2X4	2 X4	2	4	9.1	147
3X4	3 X4	3	4	9.8	192
3G4	3 G4	3	4	9.8	192
4X4	4 X4	4	4	10.9	247
4G4	4 G4	4	4	10.9	247
5X4	5 X4	5	4	12.0	305
5G4	5 G4	5	4	12.0	305
7X4	7 X4	7	4	13.3	398
7G4	7 G4	7	4	13.3	398
9X4	9 X4	9	4	16.6	529
9G4	9 G4	9	4	16.6	529
10X4	10 X4	10	4	17.6	599
10G4	10 G4	10	4	17.6	599
12X4	12 X4	12	4	18.3	685
12G4	12 G4	12	4	18.3	685

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2X6	2 X6	2	6	11.0	222
3X6	3 X6	3	6	11.8	284
3G6	3 G6	3	6	11.8	284
4X6	4 X6	4	6	13.1	363
4G6	4 G6	4	6	13.1	363
5X6	5 X6	5	6	14.5	450
5G6	5 G6	5	6	14.5	450
7X6	7 X6	7	6	16.0	586
7G6	7 G6	7	6	16.0	586
9X6	9 X6	9	6	20.1	774
9G6	9 G6	9	6	20.1	774
2X10	2 X10	2	10	13.8	350
3X10	3 X10	3	10	14.8	447
3G10	3 G10	3	10	14.8	447
4X10	4 X10	4	10	16.5	576
4G10	4 G10	4	10	16.5	576
5X10	5 X10	5	10	18.3	716
5G10	5 G10	5	10	18.3	716
7X10	7 X10	7	10	20.3	935
7G10	7 G10	7	10	20.3	935
9X10	9 X10	9	10	25.5	1228
9G10	9 G10	9	10	25.5	1228
2X16	2 X16	2	16	16.8	537
3X16	3 X16	3	16	18.1	708
3G16	3 G16	3	16	18.1	708
4X16	4 X16	4	16	20.2	910
4G16	4 G16	4	16	20.2	910
5X16	5 X16	5	16	22.4	1141
5G16	5 G16	5	16	22.4	1141
7X16	7 X16	7	16	24.8	1473
7G16	7 G16	7	16	24.8	1473
2X25	2 X25	2	25	20.8	810
3X25	3 X25	3	25	22.3	1078
3G25	3 G25	3	25	22.3	1078
4X25	4 X25	4	25	24.9	1394
4G25	4 G25	4	25	24.9	1394
5X25	5 X25	5	25	27.7	1733
5G25	5 G25	5	25	27.7	1733
7X25	7 X25	7	25	30.6	2279
7G25	7 G25	7	25	30.6	2279
2X35	2 X35	2	35	23.0	1073
3X35	3 X35	3	35	24.9	1399
3G35	3 G35	3	35	24.9	1399
4X35	4 X35	4	35	27.8	1804
4G35	4 G35	4	35	27.8	1804

*For any other cross-section or number of cores, please check with Belden for more information.

Sheath / Jacket Color

Color	Color Code
1) Grey (RAL 7001)	G8U
2) Black	010
3) Blue	006

*Applicable only for certain part codes, please check with Belden for more information.

Packaging

Belden can offer these cables with various packing options like coiled, plastic or wooden reels. This will be decided at the discretion of Belden based on the cable design and structure.

Put-up Length

Putup Length	Putup Length Code
1) 100 Meters	100M
2) 200 Meters*	200M
3) 300 Meters*	300M

*Applicable only for certain part codes, please check with Belden for more information.

Stock Code Selection Procedure

