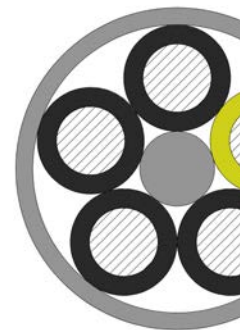
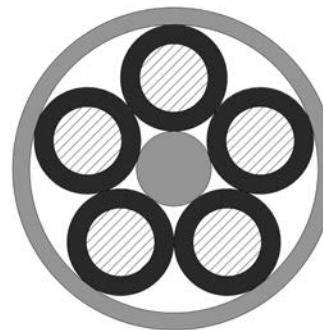


**MachFlex350 YY**

**VDE Registered  
Flexible PVC Control Cables**



**Applications**

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

**Construction & Performance**

1.	<b>Conductor Material</b>	Stranded bare copper (DIN VDE 0295 Class 5 / IEC 60228 class 5)
2.	<b>Insulation Material &amp; Colour</b>	PVC (polyvinyl chloride), DIN VDE 0293-1 (colour) <b>A)</b> All black colour with number coding = without protective earth conductor. <b>OR</b> <b>B)</b> Black colour with number coding and 1 green & yellow colour conductor = with protective earth conductor.
3.	<b>Jacket / Sheath Material</b>	PVC (polyvinyl chloride)
4.	<b>Flame Retardancy</b>	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
5.	<b>Voltage Rating (Uo/U)</b>	300 / 500 V
6.	<b>Oil Resistant</b>	DIN EN 50290-2-22 (TM54)

7.	Temperature Range	-30°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.	Other Properties	Good UV resistance, chemical resistance & flexibility

**TABLE A**

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2XA	2 X0.5	2	0.5	4.6	28
3XA	3 X0.5	3	0.5	4.9	35
3GA	3 G0.5	3	0.5	4.9	35
4XA	4 X0.5	4	0.5	5.3	44
4GA	4 G0.5	4	0.5	5.3	44
5XA	5 X0.5	5	0.5	5.9	53
5GA	5 G0.5	5	0.5	5.9	53
7XA	7 X0.5	7	0.5	6.4	68
7GA	7 G0.5	7	0.5	6.4	68
9XA	9 X0.5	9	0.5	7.9	90
9GA	9 G0.5	9	0.5	7.9	90
10XA	10 X0.5	10	0.5	8.3	100
10GA	10 G0.5	10	0.5	8.3	100
12XA	12 X0.5	12	0.5	8.6	114
12GA	12 G0.5	12	0.5	8.6	114
14XA	14 X0.5	14	0.5	9.1	131
14GA	14 G0.5	14	0.5	9.1	131
16XA	16 X0.5	16	0.5	9.6	148
16GA	16 G0.5	16	0.5	9.6	148
18XA	18 X0.5	18	0.5	10.2	167
18GA	18 G0.5	18	0.5	10.2	167
20XA	20 X0.5	20	0.5	10.8	186
20GA	20 G0.5	20	0.5	10.8	186
2XB	2 X0.75	2	0.75	5.0	36
3XB	3 X0.75	3	0.75	5.4	46
3GB	3 G0.75	3	0.75	5.4	46
4XB	4 X0.75	4	0.75	5.9	58
4GB	4 G0.75	4	0.75	5.9	58

5XB	5 X0.75	5	0.75	6.5	70
5GB	5 G0.75	5	0.75	6.5	70
7XB	7 X0.75	7	0.75	7.2	91
7GB	7 G0.75	7	0.75	7.2	91
9XB	9 X0.75	9	0.75	8.9	120
9GB	9 G0.75	9	0.75	8.9	120
10XB	10 X0.75	10	0.75	9.3	134
10GB	10 G0.75	10	0.75	9.3	134
12XB	12 X0.75	12	0.75	9.6	154
12GB	12 G0.75	12	0.75	9.6	154
14XB	14 X0.75	14	0.75	10.2	176
14GB	14 G0.75	14	0.75	10.2	176
16XB	16 X0.75	16	0.75	10.8	199
16GB	16 G0.75	16	0.75	10.8	199
18XB	18 X0.75	18	0.75	11.4	225
18GB	18 G0.75	18	0.75	11.4	225
20XB	20 X0.75	20	0.75	12.1	251
20GB	20 G0.75	20	0.75	12.1	251

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2XC	2 X1.0	2	1.0	5.4	44
3XC	3 X1.0	3	1.0	5.8	57
3GC	3 G1.0	3	1.0	5.8	57
4XC	4 X1.0	4	1.0	6.4	72
4GC	4 G1.0	4	1.0	6.4	72
5XC	5 X1.0	5	1.0	7.1	89
5GC	5 G1.0	5	1.0	7.1	89
7XC	7 X1.0	7	1.0	7.8	115
7GC	7 G1.0	7	1.0	7.8	115
9XC	9 X1.0	9	1.0	9.6	151
9GC	9 G1.0	9	1.0	9.6	151
10XC	10 X1.0	10	1.0	10.1	169
10GC	10 G1.0	10	1.0	10.1	169
12XC	12 X1.0	12	1.0	10.5	195
12GC	12 G1.0	12	1.0	10.5	195
14XC	14 X1.0	14	1.0	11.0	224
14GC	14 G1.0	14	1.0	11.0	224
16XC	16 X1.0	16	1.0	11.7	255
16GC	16 G1.0	16	1.0	11.7	255

18XC	18 X1.0	18	1.0	12.4	287
18GC	18 G1.0	18	1.0	12.4	287
20XC	20 X1.0	20	1.0	13.2	319
20GC	20 G1.0	20	1.0	13.2	319
2XD	2 X1.5	2	1.5	6.0	55
3XD	3 X1.5	3	1.5	6.4	71
3GD	3 G1.5	3	1.5	6.4	71
4XD	4 X1.5	4	1.5	7.0	91
4GD	4 G1.5	4	1.5	7.0	91
5XD	5 X1.5	5	1.5	7.8	112
5GD	5 G1.5	5	1.5	7.8	112
7XD	7 X1.5	7	1.5	8.5	145
7GD	7 G1.5	7	1.5	8.5	145
9XD	9 X1.5	9	1.5	10.6	191
9GD	9 G1.5	9	1.5	10.6	191
10XD	10 X1.5	10	1.5	11.1	213
10GD	10 G1.5	10	1.5	11.1	213
12XD	12 X1.5	12	1.5	11.5	247
12GD	12 G1.5	12	1.5	11.5	247
14XD	14 X1.5	14	1.5	12.2	284
14GD	14 G1.5	14	1.5	12.2	284
16XD	16 X1.5	16	1.5	12.9	323
16GD	16 G1.5	16	1.5	12.9	323
18XD	18 X1.5	18	1.5	13.7	364
18GD	18 G1.5	18	1.5	13.7	364
20XD	20 X1.5	20	1.5	14.5	405
20GD	20 G1.5	20	1.5	14.5	405
2XC	2 X2.5	2	2.5	7.7	91

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
3XE	3 X2.5	3	2.5	8.3	118
3GE	3 G2.5	3	2.5	8.3	118
4XE	4 X2.5	4	2.5	9.2	152
4GE	4 G2.5	4	2.5	9.2	152
5XE	5 X2.5	5	2.5	10.1	188
5GE	5 G2.5	5	2.5	10.1	188
7XE	7 X2.5	7	2.5	11.2	244
7GE	7 G2.5	7	2.5	11.2	244
9XE	9 X2.5	9	2.5	13.9	322

9GE	9 G2.5	9	2.5	13.9	322
10XE	10 X2.5	10	2.5	14.6	360
10GE	10 G2.5	10	2.5	14.6	360
12XE	12 X2.5	12	2.5	15.2	417
12GE	12 G2.5	12	2.5	15.2	417
1FXE	14 X2.5	14	2.5	16.0	481
1FGE	14 G2.5	14	2.5	16.0	481
1GXE	16 X2.5	16	2.5	17.0	548
1GGE	16 G2.5	16	2.5	17.0	548
18XE	18 X2.5	18	2.5	18.1	618
18GE	18 G2.5	18	2.5	18.1	618
20XE	20 X2.5	20	2.5	19.2	688
20GE	20 G2.5	20	2.5	19.2	688
2XF	2 X4	2	4	9.1	137
3XF	3 X4	3	4	9.8	182
3GF	3 G4	3	4	9.8	182
FXF	4 X4	4	4	10.9	235
FGF	4 G4	4	4	10.9	235
5XF	5 X4	5	4	12.0	292
5GF	5 G4	5	4	12.0	292
7XF	7 X4	7	4	13.3	383
7GF	7 G4	7	4	13.3	383
9XF	9 X4	9	4	16.6	504
9GF	9 G4	9	4	16.6	504
10XF	10 X4	10	4	17.5	564
10GF	10 G4	10	4	17.5	564
12XF	12 X4	12	4	18.1	655
12GF	12 G4	12	4	18.1	655
2XG	2 X6	2	6	11.0	202
3XG	3 X6	3	6	11.8	269
3GG	3 G6	3	6	11.8	269
FXG	4 X6	4	6	13.1	349
FGG	4 G6	4	6	13.1	349
5XG	5 X6	5	6	14.5	434
5GG	5 G6	5	6	14.5	434
7XG	7 X6	7	6	16.0	570
7GG	7 G6	7	6	16.0	570
3XE	9 X6	9	6	20.1	751

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
9GG	9 G6	9	6	20.1	751
2XH	2 X10	2	10	13.8	320
3XH	3 X10	3	10	14.8	427
3GH	3 G10	3	10	14.8	427
4XH	4 X10	4	10	16.5	555
4GH	4 G10	4	10	16.5	555
5XH	5 X10	5	10	18.3	692
5GH	5 G10	5	10	18.3	692
7XH	7 X10	7	10	20.3	910
7GH	7 G10	7	10	20.3	910
9XH	9 X10	9	10	25.5	1198
9GH	9 G10	9	10	25.5	1198
2X1G	2 X16	2	16	16.8	497
3X1G	3 X16	3	16	18.1	668
3G1G	3 G16	3	16	18.1	668
4X1G	4 X16	4	16	20.2	870
4G1G	4 G16	4	16	20.2	870
5X1G	5 X16	5	16	22.4	1086
5G1G	5 G16	5	16	22.4	1086
7X1G	7 X16	7	16	24.8	1433
7G1G	7 G16	7	16	24.8	1433
2XJ	2 X25	2	25	20.8	770
3XJ	3 X25	3	25	22.3	1038
3GJ	3 G25	3	25	22.3	1038
4XJ	4 X25	4	25	24.9	1354
4GJ	4 G25	4	25	24.9	1354
5XJ	5 X25	5	25	27.7	1693
5GJ	5 G25	5	25	27.7	1693
7XJ	7 X25	7	25	30.6	2229
7GJ	7 G25	7	25	30.6	2229

### Sheath / Jacket Colour

#### Colour

- 1) Grey (RAL 7001)
- 2) Black

#### Colour Code

G8U  
010

- |           |                      |
|-----------|----------------------|
| 3) Blue   | 006                  |
| 4) Orange | 003                  |
| 5) Violet | 007 <b>Packaging</b> |

\*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) 050 Meters*	50M
2) 100 Meters*	100M
3) 200 Meters*	200M
4) 300 Meters	300M

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

**Stock Code Selection Procedure:**

