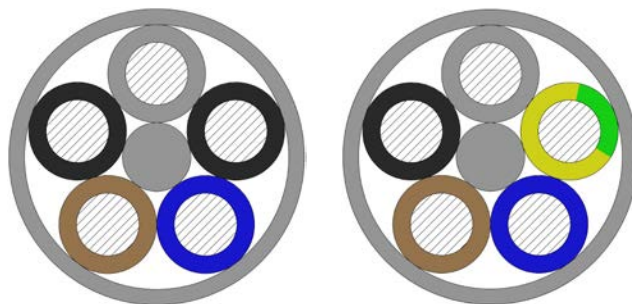


## MachFlex375 YY

### FlexibleColourCodedPVC ControlCables



### 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.	Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5 / IEC 60228 class 5)
2.	Insulation Material & Colour	PVC (polyvinyl chloride), VDE 0293-308 (colour) up to 5 cores: colour-coded according to VDE 0293-308, From 6 cores : Belden MachFlex colour code <b>A)</b> G = with GN-YE protective conductor <b>OR</b> <b>B)</b> X = without protective earth conductor
3.	Jacket / Sheath Material	PVC (polyvinyl chloride)
4.	Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
5.	Voltage Rating (Uo/U)	Up to 1.5 mm <sup>2</sup> : 300 / 500 V From 2.5 mm <sup>2</sup> : 450 / 750 V
6.	Oil Resistant	DIN EN 50290-2-22 (TM54)

7.	Temperature Range	-5°C TO +70°C (Occasional movement)
		-40°C TO +80°C (Fixed installation)
8.	Bending Radius	15 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)
C2X0.5	2 X0.5	2	0.5	4.8	30
C3X0.5	3 X0.5	3	0.5	5.1	38
C3G0.5	3 G0.5	3	0.5	5.1	38
C4X0.5	4 X0.5	4	0.5	5.6	48
C4G0.5	4 G0.5	4	0.5	5.6	48
C5X0.5	5 X0.5	5	0.5	6.2	59
C5G0.5	5 G0.5	5	0.5	6.2	59
C7X0.5	7 X0.5	7	0.5	6.8	74
C7G0.5	7 G0.5	7	0.5	6.8	74
C9X0.5	9 X0.5	9	0.5	8.4	99
C9G0.5	9 G0.5	9	0.5	8.4	99
C10X0.5	10 X0.5	10	0.5	8.8	109
C10G0.5	10 G0.5	10	0.5	8.8	109
C12X0.5	12 X0.5	12	0.5	9.1	125
C12G0.5	12 G0.5	12	0.5	9.1	125
C14X0.5	14 X0.5	14	0.5	9.6	143
C14G0.5	14 G0.5	14	0.5	9.6	143
C16X0.5	16 X0.5	16	0.5	10.2	162
C16G0.5	16 G0.5	16	0.5	10.2	162
C18X0.5	18 X0.5	18	0.5	10.8	183
C18G0.5	18 G0.5	18	0.5	10.8	183
C20X0.5	20 X0.5	20	0.5	11.4	203
C20G0.5	20 G0.5	20	0.5	11.4	203
C2X0.75	2 X0.75	2	0.75	5.3	39

<b>C3X0.75</b>	3 X0.75	3	0.75	5.6	49
<b>C3G0.75</b>	3 G0.75	3	0.75	5.6	49
<b>C4X0.75</b>	4 X0.75	4	0.75	6.2	62
<b>C4G0.75</b>	4 G0.75	4	0.75	6.2	62
<b>C5X0.75</b>	5 X0.75	5	0.75	6.8	77
<b>C5G0.75</b>	5 G0.75	5	0.75	6.8	77
<b>C7X0.75</b>	7 X0.75	7	0.75	7.5	98
<b>C7G0.75</b>	7 G0.75	7	0.75	7.5	98
<b>C9X0.75</b>	9 X0.75	9	0.75	9.3	131
<b>C9G0.75</b>	9 G0.75	9	0.75	9.3	131
<b>C10X0.75</b>	10 X0.75	10	0.75	9.8	144
<b>C10G0.75</b>	10 G0.75	10	0.75	9.8	144
<b>C12X0.75</b>	12 X0.75	12	0.75	10.1	165
<b>C12G0.75</b>	12 G0.75	12	0.75	10.1	165
<b>C14X0.75</b>	14 X0.75	14	0.75	10.7	190
<b>C14G0.75</b>	14 G0.75	14	0.75	10.7	190
<b>C16X0.75</b>	16 X0.75	16	0.75	11.3	216
<b>C16G0.75</b>	16 G0.75	16	0.75	11.3	216
<b>C18X0.75</b>	18 X0.75	18	0.75	12.0	243
<b>C18G0.75</b>	18 G0.75	18	0.75	12.0	243
<b>C20X0.75</b>	20 X0.75	20	0.75	12.7	270
<b>C20G0.75</b>	20 G0.75	20	0.75	12.7	270

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
<b>C2X1.0</b>	2 X1.0	2	1.0	5.7	47
<b>C3X1.0</b>	3 X1.0	3	1.0	6.1	60
<b>C3G1.0</b>	3 G1.0	3	1.0	6.1	60
<b>C4X1.0</b>	4 X1.0	4	1.0	6.7	77
<b>C4G1.0</b>	4 G1.0	4	1.0	6.7	77
<b>C5X1.0</b>	5 X1.0	5	1.0	7.4	95
<b>C5G1.0</b>	5 G1.0	5	1.0	7.4	95
<b>C7X1.0</b>	7 X1.0	7	1.0	8.1	122
<b>C7G1.0</b>	7 G1.0	7	1.0	8.1	122
<b>C9X1.0</b>	9 X1.0	9	1.0	10.1	163
<b>C9G1.0</b>	9 G1.0	9	1.0	10.1	163
<b>C10X1.0</b>	10 X1.0	10	1.0	10.5	180
<b>C10G1.0</b>	10 G1.0	10	1.0	10.5	180

<b>C12X1.0</b>	12 X1.0	12	1.0	10.9	208
<b>C12G1.0</b>	12 G1.0	12	1.0	10.9	208
<b>C14X1.0</b>	14 X1.0	14	1.0	11.5	239
<b>C14G1.0</b>	14 G1.0	14	1.0	11.5	239
<b>C16X1.0</b>	16 X1.0	16	1.0	12.3	271
<b>C16G1.0</b>	16 G1.0	16	1.0	12.3	271
<b>C18X1.0</b>	18 X1.0	18	1.0	13.0	306
<b>C18G1.0</b>	18 G1.0	18	1.0	13.0	306
<b>C20X1.0</b>	20 X1.0	20	1.0	13.8	340
<b>C20G1.0</b>	20 G1.0	20	1.0	13.8	340
<b>C2X1.5</b>	2 X1.5	2	1.5	6.2	58
<b>C3X1.5</b>	3 X1.5	3	1.5	6.6	75
<b>C3G1.5</b>	3 G1.5	3	1.5	6.6	75
<b>C4X1.5</b>	4 X1.5	4	1.5	7.3	96
<b>C4G1.5</b>	4 G1.5	4	1.5	7.3	96
<b>C5X1.5</b>	5 X1.5	5	1.5	8.1	119
<b>C5G1.5</b>	5 G1.5	5	1.5	8.1	119
<b>C7X1.5</b>	7 X1.5	7	1.5	8.9	154
<b>C7G1.5</b>	7 G1.5	7	1.5	8.9	154
<b>C9X1.5</b>	9 X1.5	9	1.5	11.0	204
<b>C9G1.5</b>	9 G1.5	9	1.5	11.0	204
<b>C10X1.5</b>	10 X1.5	10	1.5	11.6	226
<b>C10G1.5</b>	10 G1.5	10	1.5	11.6	226
<b>C12X1.5</b>	12 X1.5	12	1.5	12.0	261
<b>C12G1.5</b>	12 G1.5	12	1.5	12.0	261
<b>C14X1.5</b>	14 X1.5	14	1.5	12.7	300
<b>C14G1.5</b>	14 G1.5	14	1.5	12.7	300
<b>C16X1.5</b>	16 X1.5	16	1.5	13.4	342
<b>C16G1.5</b>	16 G1.5	16	1.5	13.4	342
<b>C18X1.5</b>	18 X1.5	18	1.5	14.3	385
<b>C18G1.5</b>	18 G1.5	18	1.5	14.3	385
<b>C20X1.5</b>	20 X1.5	20	1.5	15.1	429
<b>C20G1.5</b>	20 G1.5	20	1.5	15.1	429
<b>C2X2.5</b>	2 X2.5	2	2.5	9.1	114

Part Code	Cable Description	No. Of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
<b>C3X2.5</b>	3 X2.5	3	2.5	9.8	147

<b>C3G2.5</b>	3 G2.5	3	2.5	9.8	147
<b>C4X2.5</b>	4 X2.5	4	2.5	10.9	189
<b>C4G2.5</b>	4 G2.5	4	2.5	10.9	189
<b>C5X2.5</b>	5 X2.5	5	2.5	12.0	234
<b>C5G2.5</b>	5 G2.5	5	2.5	12.0	234
<b>C7X2.5</b>	7 X2.5	7	2.5	13.3	301
<b>C7G2.5</b>	7 G2.5	7	2.5	13.3	301
<b>C9X2.5</b>	9 X2.5	9	2.5	16.6	401
<b>C9G2.5</b>	9 G2.5	9	2.5	16.6	401
<b>C10X2.5</b>	10 X2.5	10	2.5	17.4	447
<b>C10G2.5</b>	10 G2.5	10	2.5	17.4	447
<b>C12X2.5</b>	12 X2.5	12	2.5	18.1	516
<b>C12G2.5</b>	12 G2.5	12	2.5	18.1	516
<b>C14X2.5</b>	14 X2.5	14	2.5	19.1	594
<b>C14G2.5</b>	14 G2.5	14	2.5	19.1	594
<b>C16X2.5</b>	16 X2.5	16	2.5	20.3	677
<b>C16G2.5</b>	16 G2.5	16	2.5	20.3	677
<b>C18X2.5</b>	18 X2.5	18	2.5	21.6	764
<b>C18G2.5</b>	18 G2.5	18	2.5	21.6	764
<b>C20X2.5</b>	20 X2.5	20	2.5	22.9	852
<b>C20G2.5</b>	20 G2.5	20	2.5	22.9	852
<b>C2X4</b>	2 X4	2	4	10.5	165
<b>C3X4</b>	3 X4	3	4	11.3	216
<b>C3G4</b>	3 G4	3	4	11.3	216
<b>C4X4</b>	4 X4	4	4	12.6	278
<b>C4G4</b>	4 G4	4	4	12.6	278
<b>C5X4</b>	5 X4	5	4	13.9	346
<b>C5G4</b>	5 G4	5	4	13.9	346
<b>C7X4</b>	7 X4	7	4	15.4	450
<b>C7G4</b>	7 G4	7	4	15.4	450
<b>C9X4</b>	9 X4	9	4	19.3	597
<b>C9G4</b>	9 G4	9	4	19.3	597
<b>C10X4</b>	10 X4	10	4	20.2	667
<b>C10G4</b>	10 G4	10	4	20.2	667
<b>C12X4</b>	12 X4	12	4	21.0	772
<b>C12G4</b>	12 G4	12	4	21.0	772
<b>C2X6</b>	2 X6	2	6	11.9	224
<b>C3X6</b>	3 X6	3	6	12.8	297

<b>C3G6</b>	3 G6	3	6	12.8	297
<b>C4X6</b>	4 X6	4	6	14.2	384
<b>C4G6</b>	4 G6	4	6	14.2	384
<b>C5X6</b>	5 X6	5	6	15.8	478
<b>C5G6</b>	5 G6	5	6	15.8	478
<b>C7X6</b>	7 X6	7	6	17.4	625
<b>C7G6</b>	7 G6	7	6	17.4	625
<b>C9X6</b>	9 X6	9	6	21.9	828
<b>Part Code</b>	<b>Cable Description</b>	<b>No. Of Cores</b>	<b>Nom. Conductor Size (mm<sup>2</sup>)</b>	<b>Nom. Cable Diameter (mm)</b>	<b>Nom. Cable Weight (kg/km)</b>
<b>C9G6</b>	9 G6	9	6	21.9	828
<b>C2X10</b>	2 X10	2	10	14.3	335
<b>C3X10</b>	3 X10	3	10	15.3	447
<b>C3G10</b>	3 G10	3	10	15.3	447
<b>C4X10</b>	4 X10	4	10	17.1	580
<b>C4G10</b>	4 G10	4	10	17.1	580
<b>C5X10</b>	5 X10	5	10	19.0	723
<b>C5G10</b>	5 G10	5	10	19.0	723
<b>C7X10</b>	7 X10	7	10	21.0	950
<b>C7G10</b>	7 G10	7	10	21.0	950
<b>C9X10</b>	9 X10	9	10	26.4	1256
<b>C9G10</b>	9 G10	9	10	26.4	1256
<b>C2X16</b>	2 X16	2	16	18.2	547
<b>C3X16</b>	3 X16	3	16	19.6	730
<b>C3G16</b>	3 G16	3	16	19.6	730
<b>C4X16</b>	4 X16	4	16	21.9	949
<b>C4G16</b>	4 G16	4	16	21.9	949
<b>C5X16</b>	5 X16	5	16	24.3	1186
<b>C5G16</b>	5 G16	5	16	24.3	1186
<b>C7X16</b>	7 X16	7	16	26.9	1559
<b>C7G16</b>	7 G16	7	16	26.9	1559
<b>C2X25</b>	2 X25	2	25	20.8	776
<b>C3X25</b>	3 X25	3	25	22.3	1048
<b>C3G25</b>	3 G25	3	25	22.3	1048
<b>C4X25</b>	4 X25	4	25	24.9	1367
<b>C4G25</b>	4 G25	4	25	24.9	1367
<b>C5X25</b>	5 X25	5	25	27.7	1709
<b>C5G25</b>	5 G25	5	25	27.7	1709

<b>C2X35</b>	2 X35	2	35	24.0	1022
<b>C3X35</b>	3 X35	3	35	25.9	1378
<b>C3G35</b>	3 G35	3	35	25.9	1378

## Sheath / Jacket Colour

Colour	Colour Code
1) Grey (RAL 7001)	G8U
2) Black	010
3) Blue	006
4) Orange	003
5) Violet	007

## 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:

