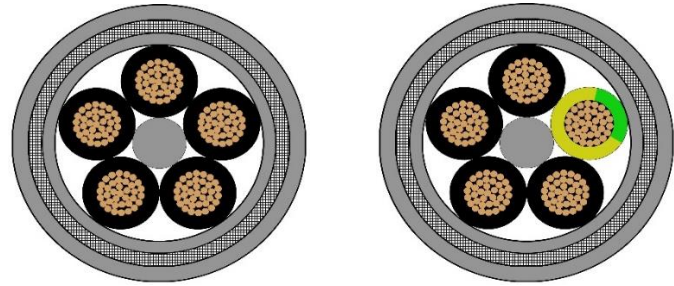


MachFlex 350CY

VDE Registered

Tinned Copper Braid Shield (TCB)



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. Tinned copper braid shield ensures cables with excellent noise immunity.

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 & 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 green & yellow colour conductor = with protective earth conductor.
3	Braid Shield Material	Tinned Copper Braid Shield
4	Inner / Outer Jacket Material	PVC (Polyvinyl Chloride) acc. to DIN EN 50363-4-1 (VDE 0207-363-4-1):2006-10
5	Transfer Impedance	Max. 250 mΩ/m @30 MHz
6	Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
7	Oil Resistant	DIN EN 50290-2-22 (TM54)
8	Voltage Rating (U₀/U)	300 / 500 V
9	Temperature Range	-15°C to +70°C (Occasional movement) -40°C to +80°C (Fixed installation)
10	Bending Radius	20 x OD (Occasional movement) 6 x OD (Fixed installation)
11	Test Voltage	4000 V
12	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)
2X0.5CY	2 X0.5	2	0.5	7.1	71
3X0.5CY	3 X0.5	3	0.5	7.4	80
3G0.5CY	3 G0.5	3	0.5	7.4	80
4X0.5CY	4 X0.5	4	0.5	8.0	95
4G0.5CY	4 G0.5	4	0.5	8.0	95
5X0.5CY	5 X0.5	5	0.5	8.6	107
5G0.5CY	5 G0.5	5	0.5	8.6	107
7X0.5CY	7 X0.5	7	0.5	9.4	147
7G0.5CY	7 G0.5	7	0.5	9.4	147
9X0.5CY	9 X0.5	9	0.5	11.3	182
9G0.5CY	9 G0.5	9	0.5	11.3	182
10X0.5CY	10 X0.5	10	0.5	11.7	188
10G0.5CY	10 G0.5	10	0.5	11.7	188
12X0.5CY	12 X0.5	12	0.5	12.0	215
12G0.5CY	12 G0.5	12	0.5	12.0	215
14X0.5CY	14 X0.5	14	0.5	12.7	225
14G0.5CY	14 G0.5	14	0.5	12.7	225
16X0.5CY	16 X0.5	16	0.5	13.1	249
16G0.5CY	16 G0.5	16	0.5	13.1	249
18X0.5CY	18 X0.5	18	0.5	13.7	285
18G0.5CY	18 G0.5	18	0.5	13.7	285
20X0.5CY	20 X0.5	20	0.5	14.4	308
20G0.5CY	20 G0.5	20	0.5	14.4	308
2X0.75CY	2 X0.75	2	0.75	7.6	89
3X0.75CY	3 X0.75	3	0.75	8.0	98
3G0.75CY	3 G0.75	3	0.75	8.0	98
4X0.75CY	4 X0.75	4	0.75	8.6	114
4G0.75CY	4 G0.75	4	0.75	8.6	114
5X0.75CY	5 X0.75	5	0.75	9.5	145
5G0.75CY	5 G0.75	5	0.75	9.5	145
7X0.75CY	7 X0.75	7	0.75	10.2	171
7G0.75CY	7 G0.75	7	0.75	10.2	171
9X0.75CY	9 X0.75	9	0.75	12.1	214
9G0.75CY	9 G0.75	9	0.75	12.1	214
10X0.75CY	10 X0.75	10	0.75	12.6	253
10G0.75CY	10 G0.75	10	0.75	12.6	253
12X0.75CY	12 X0.75	12	0.75	13.0	264
12G0.75CY	12 G0.75	12	0.75	13.0	264
14X0.75CY	14 X0.75	14	0.75	13.6	283
14G0.75CY	14 G0.75	14	0.75	13.6	283
16X0.75CY	16 X0.75	16	0.75	14.2	314
16G0.75CY	16 G0.75	16	0.75	14.2	314
18X0.75CY	18 X0.75	18	0.75	15.0	358
18G0.75CY	18 G0.75	18	0.75	15.0	358
20X0.75CY	20 X0.75	20	0.75	15.7	385

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
20G0.75CY	20 G0.75	20	0.75	15.7	385
2X1.0CY	2 X1.0	2	1.0	8.0	95
3X1.0CY	3 X1.0	3	1.0	8.3	110
3G1.0CY	3 G1.0	3	1.0	8.3	110
4X1.0CY	4 X1.0	4	1.0	9.3	140
4G1.0CY	4 G1.0	4	1.0	9.3	140
5X1.0CY	5 X1.0	5	1.0	10.0	164
5G1.0CY	5 G1.0	5	1.0	10.0	164
7X1.0CY	7 X1.0	7	1.0	10.7	195
7G1.0CY	7 G1.0	7	1.0	10.7	195
9X1.0CY	9 X1.0	9	1.0	12.9	253
9G1.0CY	9 G1.0	9	1.0	12.9	253
10X1.0CY	10 X1.0	10	1.0	13.3	275
10G1.0CY	10 G1.0	10	1.0	13.3	275
12X1.0CY	12 X1.0	12	1.0	13.8	304
12G1.0CY	12 G1.0	12	1.0	13.8	304
14X1.0CY	14 X1.0	14	1.0	14.4	340
14G1.0CY	14 G1.0	14	1.0	14.4	340
16X1.0CY	16 X1.0	16	1.0	15.1	379
16G1.0CY	16 G1.0	16	1.0	15.1	379
18X1.0CY	18 X1.0	18	1.0	15.8	418
18G1.0CY	18 G1.0	18	1.0	15.8	418
20X1.0CY	20 X1.0	20	1.0	16.6	454
20G1.0CY	20 G1.0	20	1.0	16.6	454
2X1.5CY	2 X1.5	2	1.5	8.5	109
3X1.5CY	3 X1.5	3	1.5	9.3	145
3G1.5CY	3 G1.5	3	1.5	9.3	145
4X1.5CY	4 X1.5	4	1.5	10.0	171
4G1.5CY	4 G1.5	4	1.5	10.0	171
5X1.5CY	5 X1.5	5	1.5	10.8	202
5G1.5CY	5 G1.5	5	1.5	10.8	202
7X1.5CY	7 X1.5	7	1.5	11.6	244
7G1.5CY	7 G1.5	7	1.5	11.6	244
9X1.5CY	9 X1.5	9	1.5	14.1	329
9G1.5CY	9 G1.5	9	1.5	14.1	329
10X1.5CY	10 X1.5	10	1.5	14.6	330
10G1.5CY	10 G1.5	10	1.5	14.6	330
12X1.5CY	12 X1.5	12	1.5	15.1	387
12G1.5CY	12 G1.5	12	1.5	15.1	387
14X1.5CY	14 X1.5	14	1.5	15.7	413
14G1.5CY	14 G1.5	14	1.5	15.7	413
16X1.5CY	16 X1.5	16	1.5	16.5	460
16G1.5CY	16 G1.5	16	1.5	16.5	460
18X1.5CY	18 X1.5	18	1.5	17.3	511
18G1.5CY	18 G1.5	18	1.5	17.3	511
20X1.5CY	20 X1.5	20	1.5	18.3	554
20G1.5CY	20 G1.5	20	1.5	18.3	554

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2X2.5CY	2 X2.5	2	2.5	10.4	182
3X2.5CY	3 X2.5	3	2.5	11.0	207
3G2.5CY	3 G2.5	3	2.5	11.0	207
4X2.5CY	4 X2.5	4	2.5	11.9	250
4G2.5CY	4 G2.5	4	2.5	11.9	250
5X2.5CY	5 X2.5	5	2.5	12.9	295
5G2.5CY	5 G2.5	5	2.5	12.9	295
7X2.5CY	7 X2.5	7	2.5	14.0	363
7G2.5CY	7 G2.5	7	2.5	14.0	363
9X2.5CY	9 X2.5	9	2.5	17.0	489
9G2.5CY	9 G2.5	9	2.5	17.0	489
10X2.5CY	10 X2.5	10	2.5	17.6	517
10G2.5CY	10 G2.5	10	2.5	17.6	517
12X2.5CY	12 X2.5	12	2.5	18.4	601
12G2.5CY	12 G2.5	12	2.5	18.4	601
14X2.5CY	14 X2.5	14	2.5	19.1	655
14G2.5CY	14 G2.5	14	2.5	19.1	655
16X2.5CY	16 X2.5	16	2.5	20.4	757
16G2.5CY	16 G2.5	16	2.5	20.4	757
18X2.5CY	18 X2.5	18	2.5	21.5	842
18G2.5CY	18 G2.5	18	2.5	21.5	842
20X2.5CY	20 X2.5	20	2.5	22.7	916
20G2.5CY	20 G2.5	20	2.5	22.7	916
2X4CY	2 X4	2	4	11.9	233
3X4CY	3 X4	3	4	12.6	285
3G4CY	3 G4	3	4	12.6	285
4X4CY	4 X4	4	4	13.7	350
4G4CY	4 G4	4	4	13.7	350
5X4CY	5 X4	5	4	14.9	420
5G4CY	5 G4	5	4	14.9	420
7X4CY	7 X4	7	4	16.2	522
7G4CY	7 G4	7	4	16.2	522
9X4CY	9 X4	9	4	20.0	708
9G4CY	9 G4	9	4	20.0	708
10X4CY	10 X4	10	4	20.8	779
10G4CY	10 G4	10	4	20.8	779
12X4CY	12 X4	12	4	21.6	903
12G4CY	12 G4	12	4	21.6	903
2X6CY	2 X6	2	6	13.8	318
3X6CY	3 X6	3	6	14.6	394
3G6CY	3 G6	3	6	14.6	394
4X6CY	4 X6	4	6	16.0	494
4G6CY	4 G6	4	6	16.0	494
5X6CY	5 X6	5	6	17.5	590
5G6CY	5 G6	5	6	17.5	590
7X6CY	7 X6	7	6	19.1	744
7G6CY	7 G6	7	6	19.1	744

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm ²)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
9X6CY	9 X6	9	6	23.6	1003
9G6CY	9 G6	9	6	23.6	1003
2X10CY	2 X10	2	10	16.7	468
3X10CY	3 X10	3	10	17.8	587
3G10CY	3 G10	3	10	17.8	587
4X10CY	4 X10	4	10	19.8	787
4G10CY	4 G10	4	10	19.8	787
5X10CY	5 X10	5	10	21.7	920
5G10CY	5 G10	5	10	21.7	920
7X10CY	7 X10	7	10	23.8	1164
7G10CY	7 G10	7	10	23.8	1164
9X10CY	9 X10	9	10	29.2	1529
9G10CY	9 G10	9	10	29.2	1529
2X16CY	2 X16	2	16	20.1	703
3X16CY	3 X16	3	16	21.5	892
3G16CY	3 G16	3	16	21.5	892
4X16CY	4 X16	4	16	23.6	1184
4G16CY	4 G16	4	16	23.6	1184
5X16CY	5 X16	5	16	26.0	1372
5G16CY	5 G16	5	16	26.0	1372
7X16CY	7 X16	7	16	28.5	1754
7G16CY	7 G16	7	16	28.5	1754
2X25CY	2 X25	2	25	24.2	1069
3X25CY	3 X25	3	25	25.9	1322
3G25CY	3 G25	3	25	25.9	1322
4X25CY	4 X25	4	25	28.6	1719
4G25CY	4 G25	4	25	28.6	1719
5X25CY	5 X25	5	25	31.5	2088
5G25CY	5 G25	5	25	31.5	2088
7X25CY	7 X25	7	25	34.2	2650
7G25CY	7 G25	7	25	34.2	2650
2X35CY	2 X35	2	35	26.6	1340
3X35CY	3 X35	3	35	28.5	1725
3G35CY	3 G35	3	35	28.5	1725
4X35CY	4 X35	4	35	31.4	2176
4G35CY	4 G35	4	35	31.4	2176

*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) Transparent*	368

* Transparent jacket colour by default will have a Grey (RAL 7001) inner jacket. For all other colours the inner and outer jacket colour will be the same. Special colours can also be provided upon request.

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

