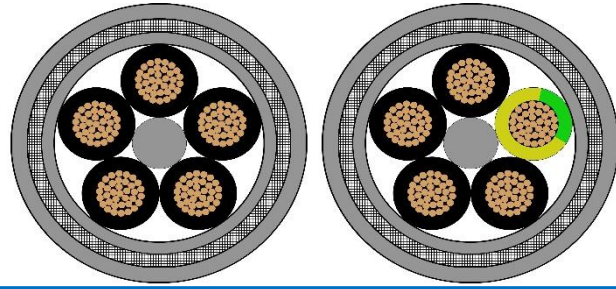


**MachFlex 350SY**

**VDE Registered**

**Galvanized Steel Wire Braid (GSWB)**



**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. Galvanized steel wire braid armor provides excellent mechanical protection.

**General Reference Standards**

- DIN VDE 0295, IEC 60228, BS 6360
- IEC 60227-5, EN 50525-2-51, VDE 0281-13
- RoHS, REACH & CE Directives
- 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

**Construction & Performance**

1	<b>Conductor Material</b>	Stranded bare copper ( DIN VDE 0295 Class 5 / IEC 60228 class 5 )
2	<b>Insulation Material &amp; Color</b>	PVC ( Polyvinyl Chloride ), DIN VDE 0293-1 ( colour ) A) All black colour with number coding = without protective earth conductor. <b>OR</b> B) Black colour with number coding and 1 GN/YE colour conductor = with protective earth conductor.
3	<b>Braid Armor Material</b>	GSWB ( Galvanized Steel Wire Braid )
4	<b>Inner / Outer Jacket Material</b>	PVC ( Polyvinyl Chloride ) acc. to DIN EN 50363-4-1 (VDE 0207-363-4-1):2006-10
5	<b>Flame Retardancy</b>	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
6	<b>Oil Resistant</b>	DIN EN 50290-2-22 ( TM54 )
7	<b>Voltage Rating (U<sub>0</sub>/U)</b>	300 / 500 V
8	<b>Temperature Range</b>	-15°C to +70°C ( Occasional movement ) -40°C to +80°C ( Fixed installation )
9	<b>Bending Radius</b>	20 x OD ( Occasional movement ) 6 x OD ( Fixed installation )
10	<b>Test Voltage</b>	4000 V
11	<b>Other Properties</b>	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)
2X0.5SY	2 X0.5	2	0.5	7.4	73
3X0.5SY	3 X0.5	3	0.5	7.7	84
3G0.5SY	3 G0.5	3	0.5	7.7	84
4X0.5SY	4 X0.5	4	0.5	8.2	92
4G0.5SY	4 G0.5	4	0.5	8.2	92
5X0.5SY	5 X0.5	5	0.5	8.8	108
5G0.5SY	5 G0.5	5	0.5	8.8	108
7X0.5SY	7 X0.5	7	0.5	9.4	128
7G0.5SY	7 G0.5	7	0.5	9.4	128
9X0.5SY	9 X0.5	9	0.5	11.3	167
9G0.5SY	9 G0.5	9	0.5	11.3	167
10X0.5SY	10 X0.5	10	0.5	11.7	183
10G0.5SY	10 G0.5	10	0.5	11.7	183
12X0.5SY	12 X0.5	12	0.5	12.0	200
12G0.5SY	12 G0.5	12	0.5	12.0	200
14X0.5SY	14 X0.5	14	0.5	12.7	221
14G0.5SY	14 G0.5	14	0.5	12.7	221
16X0.5SY	16 X0.5	16	0.5	13.1	244
16G0.5SY	16 G0.5	16	0.5	13.1	244
18X0.5SY	18 X0.5	18	0.5	13.9	278
18G0.5SY	18 G0.5	18	0.5	13.9	278
20X0.5SY	20 X0.5	20	0.5	14.6	302
20G0.5SY	20 G0.5	20	0.5	14.6	302
2X0.75SY	2 X0.75	2	0.75	7.8	85
3X0.75SY	3 X0.75	3	0.75	8.2	97
3G0.75SY	3 G0.75	3	0.75	8.2	97
4X0.75SY	4 X0.75	4	0.75	8.8	113
4G0.75SY	4 G0.75	4	0.75	8.8	113
5X0.75SY	5 X0.75	5	0.75	9.5	132
5G0.75SY	5 G0.75	5	0.75	9.5	132
7X0.75SY	7 X0.75	7	0.75	10.2	158
7G0.75SY	7 G0.75	7	0.75	10.2	158
9X0.75SY	9 X0.75	9	0.75	12.2	207
9G0.75SY	9 G0.75	9	0.75	12.2	207
10X0.75SY	10 X0.75	10	0.75	12.6	227
10G0.75SY	10 G0.75	10	0.75	12.6	227
12X0.75SY	12 X0.75	12	0.75	13.0	250
12G0.75SY	12 G0.75	12	0.75	13.0	250
14X0.75SY	14 X0.75	14	0.75	13.8	279
14G0.75SY	14 G0.75	14	0.75	13.8	279
16X0.75SY	16 X0.75	16	0.75	14.5	320
16G0.75SY	16 G0.75	16	0.75	14.5	320
18X0.75SY	18 X0.75	18	0.75	15.2	354
18G0.75SY	18 G0.75	18	0.75	15.2	354
20X0.75SY	20 X0.75	20	0.75	15.9	375
20G0.75SY	20 G0.75	20	0.75	15.9	375

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2X1.0SY	2 X1.0	2	1.0	8.4	98
3X1.0SY	3 X1.0	3	1.0	8.6	109
3G1.0SY	3 G1.0	3	1.0	8.6	109
4X1.0SY	4 X1.0	4	1.0	9.3	128
4G1.0SY	4 G1.0	4	1.0	9.3	128
5X1.0SY	5 X1.0	5	1.0	10.0	151
5G1.0SY	5 G1.0	5	1.0	10.0	151
7X1.0SY	7 X1.0	7	1.0	10.7	182
7G1.0SY	7 G1.0	7	1.0	10.7	182
9X1.0SY	9 X1.0	9	1.0	12.9	237
9G1.0SY	9 G1.0	9	1.0	12.9	237
10X1.0SY	10 X1.0	10	1.0	13.4	271
10G1.0SY	10 G1.0	10	1.0	13.4	271
12X1.0SY	12 X1.0	12	1.0	14.0	295
12G1.0SY	12 G1.0	12	1.0	14.0	295
14X1.0SY	14 X1.0	14	1.0	14.6	348
14G1.0SY	14 G1.0	14	1.0	14.6	348
16X1.0SY	16 X1.0	16	1.0	15.3	387
16G1.0SY	16 G1.0	16	1.0	15.3	387
18X1.0SY	18 X1.0	18	1.0	16.1	428
18G1.0SY	18 G1.0	18	1.0	16.1	428
20X1.0SY	20 X1.0	20	1.0	16.9	464
20G1.0SY	20 G1.0	20	1.0	16.9	464
2X1.5SY	2 X1.5	2	1.5	8.8	113
3X1.5SY	3 X1.5	3	1.5	9.3	133
3G1.5SY	3 G1.5	3	1.5	9.3	133
4X1.5SY	4 X1.5	4	1.5	10.0	158
4G1.5SY	4 G1.5	4	1.5	10.0	158
5X1.5SY	5 X1.5	5	1.5	10.8	188
5G1.5SY	5 G1.5	5	1.5	10.8	188
7X1.5SY	7 X1.5	7	1.5	11.6	229
7G1.5SY	7 G1.5	7	1.5	11.6	229
9X1.5SY	9 X1.5	9	1.5	14.3	309
9G1.5SY	9 G1.5	9	1.5	14.3	309
10X1.5SY	10 X1.5	10	1.5	14.8	337
10G1.5SY	10 G1.5	10	1.5	14.8	337
12X1.5SY	12 X1.5	12	1.5	15.3	375
12G1.5SY	12 G1.5	12	1.5	15.3	375
14X1.5SY	14 X1.5	14	1.5	16.0	423
14G1.5SY	14 G1.5	14	1.5	16.0	423
16X1.5SY	16 X1.5	16	1.5	16.7	473
16G1.5SY	16 G1.5	16	1.5	16.7	473
18X1.5SY	18 X1.5	18	1.5	17.6	524
18G1.5SY	18 G1.5	18	1.5	17.6	524
20X1.5SY	20 X1.5	20	1.5	18.5	570
20G1.5SY	20 G1.5	20	1.5	18.5	570
2X2.5SY	2 X2.5	2	2.5	10.4	167

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
3X2.5SY	3 X2.5	3	2.5	11.0	194
3G2.5SY	3 G2.5	3	2.5	11.0	194
4X2.5SY	4 X2.5	4	2.5	11.9	234
4G2.5SY	4 G2.5	4	2.5	11.9	234
5X2.5SY	5 X2.5	5	2.5	12.9	279
5G2.5SY	5 G2.5	5	2.5	12.9	279
7X2.5SY	7 X2.5	7	2.5	14.2	354
7G2.5SY	7 G2.5	7	2.5	14.2	354
9X2.5SY	9 X2.5	9	2.5	17.1	482
9G2.5SY	9 G2.5	9	2.5	17.1	482
10X2.5SY	10 X2.5	10	2.5	17.8	530
10G2.5SY	10 G2.5	10	2.5	17.8	530
12X2.5SY	12 X2.5	12	2.5	18.6	576
12G2.5SY	12 G2.5	12	2.5	18.6	576
14X2.5SY	14 X2.5	14	2.5	19.3	673
14G2.5SY	14 G2.5	14	2.5	19.3	673
16X2.5SY	16 X2.5	16	2.5	20.3	755
16G2.5SY	16 G2.5	16	2.5	20.3	755
18X2.5SY	18 X2.5	18	2.5	21.4	841
18G2.5SY	18 G2.5	18	2.5	21.4	841
20X2.5SY	20 X2.5	20	2.5	22.6	917
20G2.5SY	20 G2.5	20	2.5	22.6	917
2X4SY	2 X4	2	4	11.9	229
3X4SY	3 X4	3	4	12.6	281
3G4SY	3 G4	3	4	12.6	281
4X4SY	4 X4	4	4	13.9	358
4G4SY	4 G4	4	4	13.9	358
5X4SY	5 X4	5	4	15.1	431
5G4SY	5 G4	5	4	15.1	431
7X4SY	7 X4	7	4	16.4	540
7G4SY	7 G4	7	4	16.4	540
9X4SY	9 X4	9	4	19.9	705
9G4SY	9 G4	9	4	19.9	705
10X4SY	10 X4	10	4	20.8	777
10G4SY	10 G4	10	4	20.8	777
12X4SY	12 X4	12	4	21.5	881
12G4SY	12 G4	12	4	21.5	881
2X6SY	2 X6	2	6	14.0	323
3X6SY	3 X6	3	6	14.9	403
3G6SY	3 G6	3	6	14.9	403
4X6SY	4 X6	4	6	16.2	501
4G6SY	4 G6	4	6	16.2	501
5X6SY	5 X6	5	6	17.7	607
5G6SY	5 G6	5	6	17.7	607
7X6SY	7 X6	7	6	19.3	768
7G6SY	7 G6	7	6	19.3	768
9X6SY	9 X6	9	6	23.5	1006

Part Code	Cable Description	No. of Cores	Nom. Conductor Size (mm <sup>2</sup> )	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
9G6SY	9 G6	9	6	23.5	1006
2X10SY	2 X10	2	10	17.0	479
3X10SY	3 X10	3	10	18.0	603
3G10SY	3 G10	3	10	18.0	603
4X10SY	4 X10	4	10	19.8	757
4G10SY	4 G10	4	10	19.8	757
5X10SY	5 X10	5	10	21.7	922
5G10SY	5 G10	5	10	21.7	922
7X10SY	7 X10	7	10	23.7	1175
7G10SY	7 G10	7	10	23.7	1175
9X10SY	9 X10	9	10	29.1	1547
9G10SY	9 G10	9	10	29.1	1547
2X16SY	2 X16	2	16	20.1	699
3X16SY	3 X16	3	16	21.4	894
3G16SY	3 G16	3	16	21.4	894
4X16SY	4 X16	4	16	23.6	1131
4G16SY	4 G16	4	16	23.6	1131
5X16SY	5 X16	5	16	25.9	1387
5G16SY	5 G16	5	16	25.9	1387
7X16SY	7 X16	7	16	28.4	1785
7G16SY	7 G16	7	16	28.4	1785
2X25SY	2 X25	2	25	24.2	1034
3X25SY	3 X25	3	25	25.9	1337
3G25SY	3 G25	3	25	25.9	1337
4X25SY	4 X25	4	25	27.6	1665
4G25SY	4 G25	4	25	27.6	1665
5X25SY	5 X25	5	25	31.2	2035
5G25SY	5 G25	5	25	31.2	2035
7X25SY	7 X25	7	25	33.9	2555
7G25SY	7 G25	7	25	33.9	2555
2X35SY	2 X35	2	35	26.6	1325
3X35SY	3 X35	3	35	28.5	1673
3G35SY	3 G35	3	35	28.5	1673
4X35SY	4 X35	4	35	31.2	2083
4G35SY	4 G35	4	35	31.2	2083

\*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**

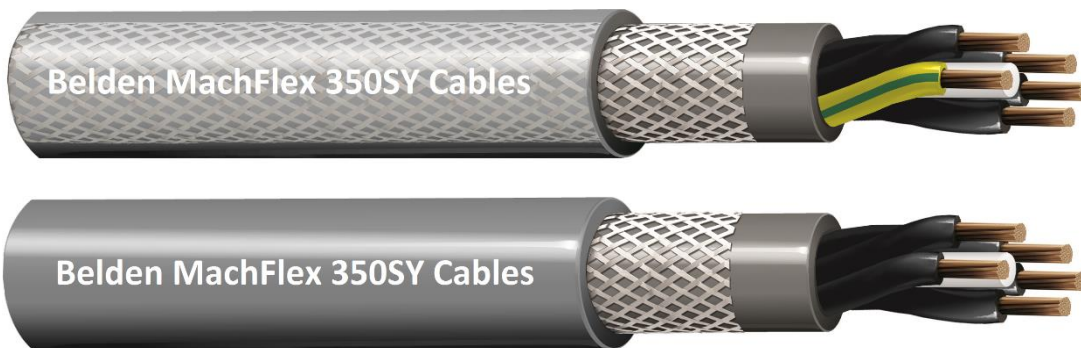
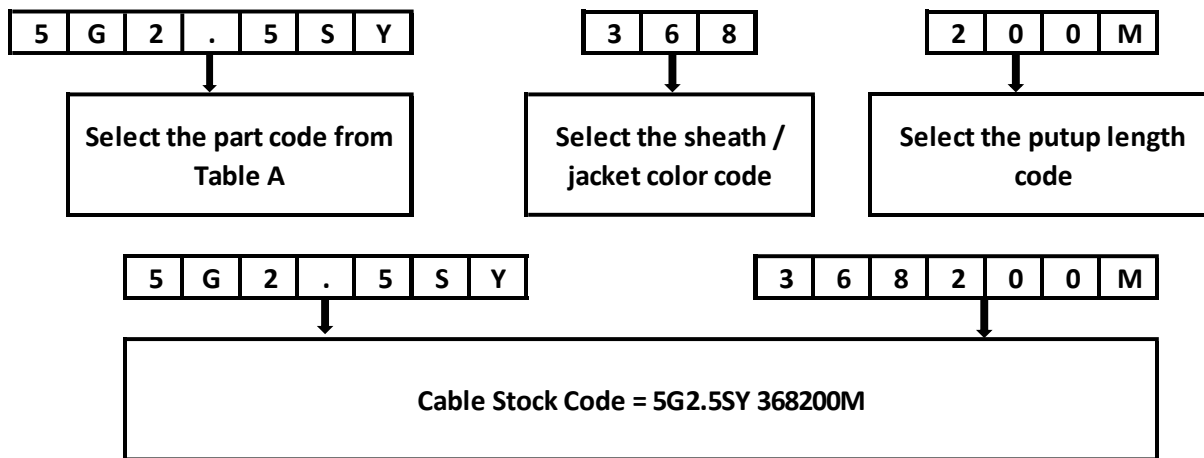
Belden can offer these cables with various packing options like coiled, plastic or wooden reels. This will be decided at the discretion of Belden based on the cable design and structure.

**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**



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