

MachFlex 375 SY Cables

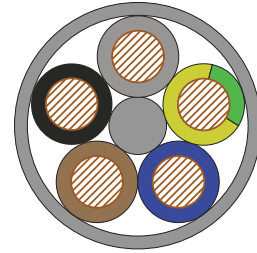
Galvanized Steel Wire Braid (GSWB) -
Excellent Mechanical Protection

Armored (SY) PVC Control Cables



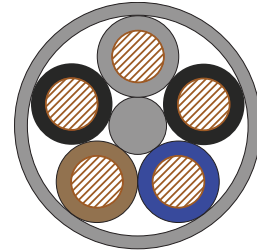
Applications

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, BS6360
- DIN EN 50290-2-22, DIN VDE 0207-363-4-1
- IEC 60227-5, VDE 0281
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS & REACH Directives

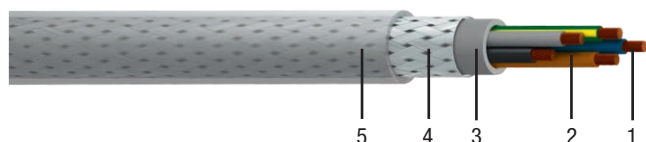


Construction and Performance

1.	Conductor Material	Stranded bare copper (DIN VDE 0295 Class 5)
2.	Insulation Material & Color	PVC (polyvinyl chloride). A) Up to 5 cores: color-coded. From 6 cores: Belden MachFlex Color code. B) G = with GN-YE protective conductor; X = without protective conductor.
3.	Braid Shield Material	GSWB (Galvanized Steel Wire Braid)
4.	Jacket / Sheath Material	PVC (polyvinyl chloride)
5.	Flame Retardancy	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
6.	Voltage Rating (Uo/U)	Up to 1.5 mm ² : 300 / 500 V From 2.5 mm ² : 450 / 750 V
7.	Oil Resistant	DIN EN 50290-2-22 (TM54)
8.	Temperature Range	-5 °C TO +70 °C (Occasional movement) -40 °C TO +80 °C (Fixed installation)
9.	Bending Radius	20 x OD (Occasional movement) 6 x OD (Fixed installation)
10.	Other Properties	Good UV resistance, chemical resistance & flexibility

MachFlex 375 SY Armored (SY) PVC Control Cables

GALVANIZED STEEL WIRE BRAID SHIELD (GSWB) CABLE WITH (G) PROTECTIVE GROUND



- 1 = Conductor
- 2 = Insulation
- 3 = Inner Sheath
- 4 = Galvanized Steel Wire Braid Shield
- 5 = Outer Sheath

Conductor 0.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	7.7	14.40	C3GASY	C3G0.5SY
4	8.3	19.20	C4GASY	C4G0.5SY
5	8.8	24.00	C5GASY	C5G0.5SY
7	9.5	33.60	C7GASY	C7G0.5SY
12	11.9	58.00	C12GASY	C12G0.5SY
20	14.5	96.70	C20GASY	C20G0.5SY

Conductor 1.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	8.7	28.80	C3GCSY	C3G1.0SY
4	9.4	38.40	C4GCSY	C4G1.0SY
5	10.1	48.00	C5GCSY	C5G1.0SY
7	10.8	67.00	C7GCSY	C7G1.0SY
12	14.0	115.00	C12GCSY	C12G1.0SY
20	16.9	192.00	C20GCSY	C20G1.0SY

Conductor 2.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	12.6	72.00	C3GESY	C3G2.5SY
4	13.9	96.00	C4GESY	C4G2.5SY
5	15.1	120.00	C5GESY	C5G2.5SY
7	16.4	168.00	C7GESY	C7G2.5SY
9	19.9	216.00	C9GESY	C9G2.5SY
12	21.4	288.00	C12GESY	C12G2.5SY

Conductor 6.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	15.9	172.80	C3GGSY	C3G6SY
4	17.4	230.00	C4GGSY	C4G6SY
5	19.0	288.00	C5GGSY	C5G6SY
7	20.7	403.00	C7GGSY	C7G6SY
9	25.4	518.10	C9GGSY	C9G6SY

Conductor 16.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	23.0	460.50	C3GISY	C3G16SY
4	25.3	614.00	C4GISY	C4G16SY
5	27.9	768.00	C5GISY	C5G16SY

Conductor 0.75 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	8.3	21.60	C3GBSY	C3G0.75SY
4	8.9	28.80	C4GBSY	C4G0.75SY
5	9.5	36.00	C5GBSY	C5G0.75SY
7	10.2	50.00	C7GBSY	C7G0.75SY
12	12.9	86.00	C12GBSY	C12G0.75SY
20	15.9	143.30	C20GBSY	C20G0.75SY

Conductor 1.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	9.3	43.00	C3GDSY	C3G1.5SY
4	10.0	58.00	C4GDSY	C4G1.5SY
5	10.8	72.00	C5GDSY	C5G1.5SY
7	11.6	101.00	C7GDSY	C7G1.5SY
12	15.1	173.00	C12GDSY	C12G1.5SY
20	18.4	288.30	C20GDSY	C20G1.5SY

Conductor 4.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	14.4	115.00	C3GFSY	C3G4SY
4	15.7	154.00	C4GFSY	C4G4SY
5	17.1	192.00	C5GFSY	C5G4SY
7	18.6	269.00	C7GFSY	C7G4SY
9	22.7	345.90	C9GFSY	C9G4SY
12	24.5	461.00	C12GFSY	C12G4SY

Conductor 10.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	18.6	288.00	C3GHSY	C3G10SY
4	20.4	384.00	C4GHSY	C4G10SY
5	22.3	480.00	C5GHSY	C5G10SY
7	24.4	672.00	C7GHSY	C7G10SY
9	30.0	864.00	C9GHSY	C9G10SY

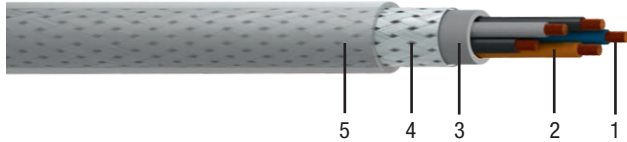
Conductor 25.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	25.9	720.00	C3GJSY	C3G25SY
4	28.6	960.00	C4GJSY	C4G25SY
5	31.2	1,200.00	C5GJSY	C5G25SY

- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted

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