

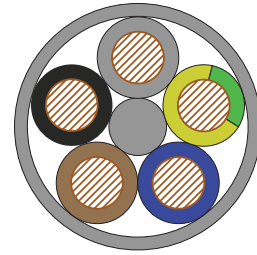
MachFlex 375 YY Cables

Unshielded PVC Control Cables



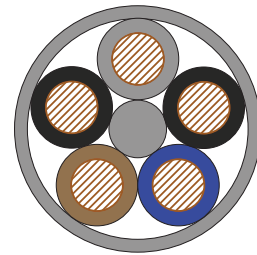
Applications

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, EN 50525-2-51
- DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- RoHS & REACH & CE Directives

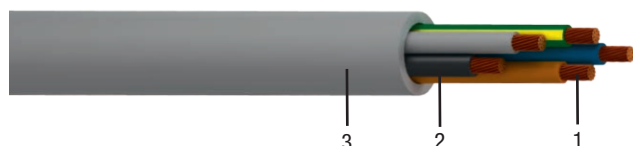


Construction and Performance

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	Tinned Copper Braid Shield
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	10 x OD (Occasional movement) 4 x OD (Fixed installation)
10.	Other Properties	Good UV resistance, chemical resistance & flexibility

MachFlex 375 YY Unshielded PVC Control Cables

UNSHIELDED CABLE WITH (G) PROTECTIVE GROUND



1 = Conductor
2 = Insulation
3 = Sheath

Conductor 0.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.1	14.40	C3GA	C3G0.5
4	5.6	19.20	C4GA	C4G0.5
5	6.2	24.00	C5GA	C5G0.5
7	6.8	33.60	C7GA	C7G0.5
12	9.1	58.00	C12GA	C12G0.5
20	11.4	96.70	C20GA	C20G0.5

Conductor 1.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.1	28.80	C3GC	C3G1.0
4	6.7	38.40	C4GC	C4G1.0
5	7.4	48.00	C5GC	C5G1.0
7	8.1	67.00	C7GC	C7G1.0
12	10.9	115.00	C12GC	C12G1.0
20	13.8	192.00	C20GC	C20G1.0

Conductor 2.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	9.8	72.00	C3GE	C3G2.5
4	10.9	96.00	C4GE	C4G2.5
5	12.0	120.00	C5GE	C5G2.5
7	13.3	168.00	C7GE	C7G2.5
9	16.6	216.00	C9GE	C9G2.5
12	18.1	288.00	C12GE	C12G2.5

Conductor 6.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	12.8	172.80	C3GG	C3G6
4	14.2	230.00	C4GG	C4G6
5	15.8	288.00	C5GG	C5G6
7	17.4	403.00	C7GG	C7G6
9	21.9	518.10	C9GG	C9G6

Conductor 16.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	19.6	460.50	C3GI	C3G16
4	21.9	614.00	C4GI	C4G16
5	24.3	768.00	C5GI	C5G16

Conductor 0.75 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.6	21.60	C3GB	C3G0.75
4	6.2	28.80	C4GB	C4G0.75
5	6.8	36.00	C5GB	C5G0.75
7	7.5	50.00	C7GB	C7G0.75
12	10.1	86.00	C12GB	C12G0.75
20	12.7	143.30	C20GB	C20G0.75

Conductor 1.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.6	43.00	C3GD	C3G1.5
4	7.3	58.00	C4GD	C4G1.5
5	8.1	72.00	C5GD	C5G1.5
7	8.9	101.00	C7GD	C7G1.5
12	12.0	173.00	C12GD	C12G1.5
20	15.1	288.30	C20GD	C20G1.5

Conductor 4.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	11.3	115.00	3GF	C3G4
4	12.6	154.00	4GF	C4G4
5	13.9	192.00	5GF	C5G4
7	15.4	269.00	7GF	C7G4
9	19.3	345.90	C9GF	C9G4
12	21.0	461.00	C12GF	C12G4

Conductor 10.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	15.3	288.00	C3GH	C3G10
4	17.1	384.00	C4GH	C4G10
5	19.0	480.00	C5GH	C5G10
7	21.0	672.00	C7GH	C7G10
9	26.4	864.00	C9GH	C9G10

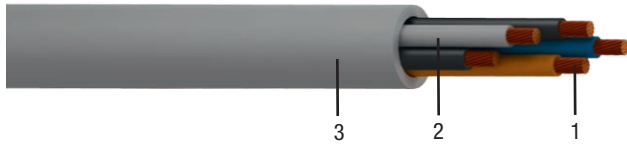
Conductor 25.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	22.3	720.00	C3GJ	C3G25
4	24.9	960.00	C4GJ	C4G25
5	27.7	1,200.00	C5GJ	C5G25

- 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

MachFlex 375 YY Unshielded PVC Control Cables

UNSHIELDED CABLE WITHOUT (G) PROTECTIVE GROUND



1 = Conductor
2 = Insulation
3 = Sheath

Conductor 0.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.1	14.40	C3XA	C3X0.5
4	5.6	19.20	C4XA	C4X0.5
5	6.2	24.00	C5XA	C5X0.5
7	6.8	33.60	C7XA	C7X0.5
12	9.1	58.00	C12XA	C12X0.5
20	11.4	96.70	C20XA	C20X0.5

Conductor 1.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.1	28.80	C3XC	C3X1.0
4	6.7	38.40	C4XC	C4X1.0
5	7.4	48.00	C5XC	C5X1.0
7	8.1	67.00	C7XC	C7X1.0
12	10.9	115.00	C12XC	C12X1.0
20	13.8	192.00	C20XC	C20X1.0

Conductor 2.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	9.8	72.00	C3XE	C3X2.5
4	10.9	96.00	C4XE	C4X2.5
5	12.0	120.00	C5XE	C5X2.5
7	13.3	168.00	C7XE	C7X2.5
9	16.6	216.00	C9XE	C9X2.5
12	18.1	288.00	C12XE	C12X2.5

Conductor 6.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	12.8	172.80	C3XG	C3X6
4	14.2	230.00	C4XG	C4X6
5	15.8	288.00	C5XG	C5X6
7	17.4	403.00	C7XG	C7X6
9	21.9	518.10	C9XG	C9X6

Conductor 16.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	19.6	460.50	C3XI	C3X16
4	21.9	614.00	C4XI	C4X16
5	24.3	768.00	C5XI	C5X16

Conductor 0.75 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.6	21.60	C3XB	C3X0.75
4	6.2	28.80	C4XB	C4X0.75
5	6.8	36.00	C5XB	C5X0.75
7	7.5	50.00	C7XB	C7X0.75
12	10.1	86.00	C12XB	C12X0.75
20	12.7	143.30	C20XB	C20X0.75

Conductor 1.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.6	43.00	C3XD	C3X1.5
4	7.3	58.00	C4XD	C4X1.5
5	8.1	72.00	C5XD	C5X1.5
7	8.9	101.00	C7XD	C7X1.5
12	12.0	173.00	C12XD	C12X1.5
20	15.1	288.30	C20XD	C20X1.5

Conductor 4.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	11.3	115.00	C3XF	C3X4
4	12.6	154.00	C4XF	C4X4
5	13.9	192.00	C5XF	C5X4
7	15.4	269.00	C7XF	C7X4
9	19.3	345.90	C9XF	C9X4
12	21.0	461.00	C12XF	C12X4

Conductor 10.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	15.3	288.00	C3XH	C3X10
4	17.1	384.00	C4XH	C4X10
5	19.0	480.00	C5XH	C5X10
7	21.0	672.00	C7XH	C7X10
9	26.4	864.00	C9XH	C9X10

Conductor 25.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	22.3	720.00	C3XJ	C3X25
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