

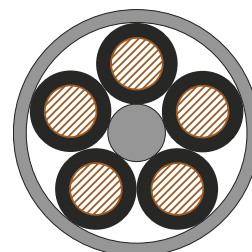
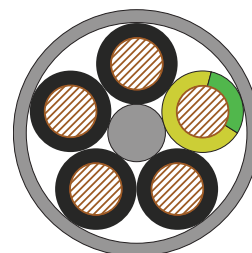
MachFlex 350 YY Cables



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
- 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	Insulation Material & Colour PVC (polyvinyl chloride). A) All black color with number coding = without protective conductor. B) Black color with number coding plus 1 green & yellow = with protective 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)	300 / 500 V
6.	Oil Resistant	DIN EN 50290-2-22 (TM54)
7.	Temperature Range	-30 °C TO +70 °C (Occasional movement) -40 °C TO +80 °C (Fixed installation)
8.	Bending Radius	10 x OD (Occasional movement) 4 x OD (Fixed installation)
9.	Other Properties	Good UV resistance, chemical resistance & flexibility

MachFlex 350 YY Unshielded PVC Control Cables

UNSHIELDED CABLE WITH (G) PROTECTIVE GROUND



1 = Conductor
2 = Insulation
3 = Inner Sheath

Conductor 0.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	4.9	14.40	3GA	3G0.5
4	5.3	19.20	4GA	4G0.5
5	5.9	24.00	5GA	5G0.5
7	6.4	33.60	7GA	7G0.5
12	8.6	58.00	12GA	12G0.5
20	10.8	96.70	20GA	20G0.5

Conductor 0.75 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.4	21.60	3GB	3G0.75
4	5.9	28.80	4GB	4G0.75
5	6.5	36.00	5GB	5G0.75
7	7.2	50.00	7GB	7G0.75
12	9.6	86.00	12GB	12G0.75
20	12.1	143.30	20GB	20G0.75

Conductor 1.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.8	28.80	3GC	3G1.0
4	6.4	38.40	4GC	4G1.0
5	7.1	48.00	5GC	5G1.0
7	7.8	67.00	7GC	7G1.0
12	10.5	115.00	12GC	12G1.0
20	13.2	192.00	20GC	20G1.0

Conductor 1.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.4	43.00	3GD	3G1.5
4	7.0	58.00	4GD	4G1.5
5	7.8	72.00	5GD	5G1.5
7	8.5	101.00	7GD	7G1.5
12	11.5	173.00	12GD	12G1.5
20	14.5	288.30	20GD	20G1.5

Conductor 2.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	8.3	72.00	3GE	3G2.5
4	9.2	96.00	4GE	4G2.5
5	10.1	120.00	5GE	5G2.5
7	11.2	168.00	7GE	7G2.5
12	15.2	288.00	12GE	12G2.5
20	19.2	480.00	20GE	20G2.5

Conductor 4.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	9.8	115.00	3GF	3G4
4	10.9	154.00	4GF	4G4
5	12.0	192.00	5GF	5G4
7	13.3	269.00	7GF	7G4
9	16.6	345.90	9GF	9G4
12	18.1	461.00	12GF	12G4

Conductor 6.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	11.8	172.80	3GG	3G6
4	13.1	230.00	4GG	4G6
5	14.5	288.00	5GG	5G6
7	16.0	403.00	7GG	7G6
9	20.1	518.10	9GG	9G6

Conductor 10.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	14.8	288.00	3GH	3G10
4	16.5	384.00	4GH	4G10
5	18.3	480.00	5GH	5G10
7	20.3	672.00	7GH	7G10
9	25.5	864.00	9GH	9G10

Conductor 16.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	18.1	460.50	3GI	3G16
4	20.2	614.00	4GI	4G16
5	22.4	768.00	5GI	5G16
7	24.8	1,075.00	7GI	7G16

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	3GJ	3G25
4	24.9	960.00	4GJ	4G25
5	27.7	1,200.00	5GJ	5G25
7	30.6	1,680.00	7GJ	7G25

- 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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UNSHIELDED CABLE WITHOUT (G) PROTECTIVE GROUND



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3 = Inner Sheath

Conductor 0.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	4.9	14.40	3XA	3X0.5
4	5.3	19.20	4XA	4X0.5
5	5.9	24.00	5XA	5X0.5
7	6.4	33.60	7XA	7X0.5
12	8.6	58.00	12XA	12X0.5
20	10.8	96.70	20XA	20X0.5

Conductor 1.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.8	28.80	3XC	3X1.0
4	6.4	38.40	4XC	4X1.0
5	7.1	48.00	5XC	5X1.0
7	7.8	67.00	7XC	7X1.0
12	10.5	115.00	12XC	12X1.0
20	13.2	192.00	20XC	20X1.0

Conductor 2.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	8.3	72.00	3XE	3X2.5
4	9.2	96.00	4XE	4X2.5
5	10.1	120.00	5XE	5X2.5
7	11.2	168.00	7XE	7X2.5
12	15.2	288.00	12XE	12X2.5
20	19.2	480.00	20XE	20X2.5

Conductor 6.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	11.8	172.80	3XG	3X6
4	13.1	230.00	4XG	4X6
5	14.5	288.00	5XG	5X6
7	16.0	403.00	7XG	7X6
9	20.1	518.10	9XG	9X6

Conductor 16.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	18.1	460.50	3XI	3X16
4	20.2	614.00	4XI	4X16
5	22.4	768.00	5XI	5X16
7	24.8	1,075.00	7XI	7X16

Conductor 0.75 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	5.4	21.60	3XB	3X0.75
4	5.9	28.80	4XB	4X0.75
5	6.5	36.00	5XB	5X0.75
7	7.2	50.00	7XB	7X0.75
12	9.6	86.00	12XB	12X0.75
20	12.1	143.30	20XB	20X0.75

Conductor 1.50 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	6.4	43.00	3XD	3X1.5
4	7.0	58.00	4XD	4X1.5
5	7.8	72.00	5XD	5X1.5
7	8.5	101.00	7XD	7X1.5
12	11.5	173.00	12XD	12X1.5
20	14.5	288.30	20XD	20X1.5

Conductor 4.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	9.8	115.00	3XF	3X4
4	10.9	154.00	4XF	4X4
5	12.0	192.00	5XF	5X4
7	13.3	269.00	7XF	7X4
9	16.6	345.90	9XF	9X4
12	18.1	461.00	12XF	12X4

Conductor 10.00 mm²

No. of Cores	Nom. Overall Diameter (mm)	Copper Weight (kg/km)	EMEA Part Code	APAC Part Code
3	14.8	288.00	3XH	3X10
4	16.5	384.00	4XH	4X10
5	18.3	480.00	5XH	5X10
7	20.3	672.00	7XH	7X10
9	25.5	864.00	9XH	9X10

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	3XJ	3X25
4	24.9	960.00	4XJ	4X25
5	27.7	1,200.00	5XJ	5X25
7	30.6	1,680.00	7XJ	7X25

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