BELDEN

Product: [12X0.5NCY](#) ⧉

MachFlex™ 350NCY, 12 C 0.5 mm² Str BC, PVC Ins, TCBS, PVC Outer Jkt

Product Description

MachFlex™ Control Cable 350NCY, 12 Conductors 0.5 mm² Stranded Bare Copper, PVC Insulation, Tinned Copper Braid Shield, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	Applicable for occasional flexing or fixed installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more in noisy industrial environment.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	12	0.5 mm²	Stranded	Class 5	BC - Bare Copper

Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12

Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal):	9.9 mm (0.39 in)

Electrical Characteristics

Voltage

Voltage Rating
300 / 500 V (Max. Operating Voltage)

Mechanical Characteristics

Temperature

Operating	Installation
-5°C to +70°C (Continuous movement)	40°C to +80°C (Fixed installation)

Bend Radius

Stationary Min.	Installation Min.
148.5 mm (5.846 in)	59.4 mm (2.34 in)

Bulk Cable Weight:	158 kg/km (106 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	VDE 0285-525-2-51, EN 50525-2-51

History

Update and Revision:	Revision Number: 0.6 Revision Date: 12-20-2024

Part Numbers

Variants

Item #	Color	Length
12X0.5NCY 010100M	Black	100 m
12X0.5NCY 010200M	Black	200 m
12X0.5NCY 010300M	Black	300 m
12X0.5NCY 006100M	Blue	100 m
12X0.5NCY 006200M	Blue	200 m
12X0.5NCY 006300M	Blue	300 m
12X0.5NCY G8U100M	Gray, RAL 7001	100 m
12X0.5NCY G8U200M	Gray, RAL 7001	200 m
12X0.5NCY G8U300M	Gray, RAL 7001	300 m