BELDEN

Product: 12X1.0CP ⧉

MachFlex™ 350CP, 12C 1 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PUR Outer Jkt

Product Description

MachFlex™ 350CP Control Cable, 12 Conductor 1 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PUR Outer Jacket

Technical Specifications

Product Overview

Suitable 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. PUR jacket provides with excellent abrasion protection and chemical resistance. Tinned copper braid shielding version will ensure the cable with good noise immunity.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	12	1 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)

Inner Jacket

Material
PVC - Polyvinyl Chloride

Outer Jacket

Material
PUR - Polyurethane

Overall Cable Diameter (Nominal):	13.8 mm (0.543 in)

Electrical Characteristics

Voltage

Voltage Rating
300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage)

Mechanical Characteristics

Temperature

Operating	Installation
-20°C to +70°C (Occasional movement)	40°C to +80°C (Fixed installation)

Bend Radius

Installation Min.	Flexing Min.
82.8 mm (3.26 in)	276 mm (10.9 in)

Bulk Cable Weight:	299 kg/km (201 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h
ISO/IEC Compliance:	IEC 60228
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	EN 50525-2-51, VDE 0285, VDE 0295, EN 50363-3, EN 50363-10-2, BS 6360

Product Notes

Notes:	General Reference Standards : VDE 0207-363-3, DIN VDE 0207-363-10-2

History

Update and Revision:	Revision Number: 0.21 Revision Date: 01-16-2024

Part Numbers

Variants

Item #	Color	Length
12X1.0CP 010100M	Black	100 m
12X1.0CP 010200M	Black	200 m
12X1.0CP 010300M	Black	300 m
12X1.0CP 006100M	Blue	100 m
12X1.0CP 006200M	Blue	200 m
12X1.0CP 006300M	Blue	300 m
12X1.0CP G8U100M	Gray, RAL 7001	100 m
12X1.0CP G8U200M	Gray, RAL 7001	200 m
12X1.0CP G8U300M	Gray, RAL 7001	300 m