Product: C20G0.5CY

MachFlex™ 375CY, 19C+1G 0.5 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 375CY, 19 Conductor + 1 Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC 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. Tinned copper braid shield ensures cables with excellent noise immunity

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	19	0.5 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	0.5 mm²	Stranded	Class 5	BC - Bare Copper

Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	White, Black, Blue, Brown, Grey, Red, Violet, Pink, Orange, Green, Beige, Black/White, Blue/White, Brown/White, Grey/White, Red/White, Violet/White, Pink/White, Orange/White
Ground	PVC - Polyvinyl Chloride	Yellow/Green

Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

Inner Jacket

Material
PVC - Polyvinyl Chloride

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal):	13.9 mm (0.547 in)

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

Operating	Installation

-5°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

Bend Radius

Installation Min.	Flexing Min.
83.4 mm (3.28 in)	278 mm (10.9 in)

Bulk Cable Weight:	289 kg/km (194 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-22
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):	VDE 0295, DIN VDE 0207-363-4-1, IEC 60227-5, EN 50525-2-51, BS 6360

History

Update and Revision:	Revision Number: 0.38 Revision Date: 07-12-2024

Part Numbers

Variants

Item #	Color	Length
C20G0.5CY 010100M	Black	100 m
C20G0.5CY 010200M	Black	200 m
C20G0.5CY 010300M	Black	300 m
C20G0.5CY G8U100M	Gray, RAL 7001	100 m
C20G0.5CY G8U200M	Gray, RAL 7001	200 m
C20G0.5CY G8U300M	Gray, RAL 7001	300 m
C20G0.5CY 368100M	Transparent	100 m
C20G0.5CY 368200M	Transparent	200 m
C20G0.5CY 368300M	Transparent	300 m

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