Belden

Product: 3X0.75CY

MachFlex™ 350CY, 3 C 0.75mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 350CY Control VDE Certified, 3 Conductor 0.75mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, 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)	3	0.75 mm²	Stranded	Class 5	BC - Bare Copper

Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3

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):	8.0 mm (0.31 in)

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

Operating	Installation
-15°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

Bend Radius

Installation Min.	Flexing Min.

48 mm (1.9 in)	160 mm

Bulk Cable Weight:	98 kg/km (66 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212
Third Party Performance Verification:	VDE Certification No. 40041970, VDE Registration No. 8770
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	IEC 60227-5, EN 50525-2-51, VDE 0285-525-2-51

History

Update and Revision:	Revision Number: 0.72 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Length
3X0.75CY 010100M	Black, RAL 9004	100 m
3X0.75CY 010200M	Black, RAL 9004	200 m
3X0.75CY 010300M	Black, RAL 9004	300 m
3X0.75CY G8U100M	Gray, RAL 7001	100 m
3X0.75CY G8U200M	Gray, RAL 7001	200 m
3X0.75CY G8U300M	Gray, RAL 7001	300 m
3X0.75CY 368100M	Transparent	100 m
3X0.75CY 368200M	Transparent	200 m
3X0.75CY 368300M	Transparent	300 m

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