Belden

Product: 9G0.5

MachFlex™ 350YY, 8C+1G 0.5 mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ 350YY Control VDE Certified, 8 Conductor + 1 Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC 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.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	8	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	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8
Ground	PVC - Polyvinyl Chloride	Yellow/Green

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal):	8.5 mm (0.33 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.
34 mm (1.3 in)	85 mm

Bulk Cable Weight:	100 kg/km (67 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	VDE 0285-525-2-51, IEC 60227-5, EN 50525-2-51

History

Update and Revision:	Revision Number: 0.53 Revision Date: 01-15-2026

Part Numbers

Variants

Item #	Color	Length
9G0.5 010100M	Black, RAL 9004	100 m
9G0.5 010200M	Black, RAL 9004	200 m
9G0.5 010300M	Black, RAL 9004	300 m
9G0.5 G8U100M	Gray, RAL 7001	100 m
9G0.5 G8U200M	Gray, RAL 7001	200 m
9G0.5 G8U300M	Gray, RAL 7001	300 m