BELDEN

Product: 8G1.5SY ☒

MachFlex™ 350 SY, 7 C + 1 G 1.5 mm² Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

Product Description

MachFlex™ 350 SY VDE Certified Control Cable 7 Conductor + 1 Ground 1.5mm² Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braiding Armor, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	Application 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 morein hash industrial environment.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	7	1.5 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	1.5 mm²	Stranded	Class 5	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PVC - Polyvinyl Chloride	2.32 mm (0.0913 in)	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7
PVC - Polyvinyl Chloride		Yellow with Green strip

Inner Jacket

Separator	Material	Nom. Diameter
non-Woven Tape	PVC - Polyvinyl Chloride	9.7 mm (0.38 in)

Armor

Armor Type & Material	Armor Material Diameter
SWB - Steel Wire Braid Armor	10.6 mm (0.417 in)

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	13.1 mm (0.516 in)

Electrical Characteristics

Electricals

Nom. Conductor DCR
13.3 Ohm/km (4.05 Ohm/1000ft)

Voltage

Voltage Rating
300 / 500 V

Mechanical Characteristics

Temperature

Installation	Continuous Flexing

-40°C to +80°C	-15°C To +70°C

Bend Radius

Installation Min.	Flexing Min.
78.6 mm (3.09 in)	262 mm (10.3 in)

Bulk Cable Weight:	265 kg/km (178 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-22
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	IEC 60227-5, EN 50525-2-51

Product Notes

Notes:	Conductor Standards : DIN VDE 0295, BS 6360 Cable Standards : VDE 0281-13, VDE Certification No. 40041970, VDE Registration No. 8770. EMEA PN : 8GDSY

History

Update and Revision:	Revision Number: 0.26 Revision Date: 07-04-2024

-40°C to +80°C	-15°C To +70°C