



Product: <u>12G4SH</u>

MachFlex[™] 350 SH, 11C + 1G 4 mm² Str BC, PP Ins, LSZH Inner Jkt, GSW Brd, LSZH Outer Jkt

Product Description

MachFlex[™] 350 SH Control Cable 11 Conductor + 1 Ground 4 mm² Stranded Bare Copper, PP Insulation, LSZH Inner Jacket, Galvanized Steel Wire Braiding Armor, LSZH Outer Jacket

Technical Specifications

Product Overview

	Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, multi axis control machines, temperature
Suitable	controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more. Galvanized steel wire braid armor provides excellent
Applications:	mechanical protection. This LSZH material emits limited smoke and no halogen when exposed to high sources of heat. It can considerably reduce the amount and density of the smoke,
	toxic and corrosive gas emitted during a fire, enable easier evacuation as well as safer firefighting operations.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	11	4 mm ²	Stranded	Class 5	BC - Bare Copper
Ground	1	4 mm ²	Stranded	Class 5	BC - Bare Copper

Insulation

Element	t Material Color Code	
Conductor(s)	PP - Polypropylene	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11
Ground	PP - Polypropylene	Yellow/Green

Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Armor

Armor Type & Material

SWB - Steel Wire Braid Armor

Outer Jacket

	Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)	
Overall Cable Diameter (Nominal):	21.5 mm (0.846 in)

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

Operating

Installation

Bend Radius

 Installation Min.
 Flexing Min.

 129 mm (5.08 in)
 430 mm (17 in)

Bulk Cable Weight: 839 kg/km (564 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance	
Flammability / Reaction to Fire:	EC 60332-1-2, DIN VDE 048233212, DIN EN 6033212	
ISO/IEC Compliance:	IEC 60228	
CENELEC Compliance:	EN 50290-2-22, EN 50290-2-27	
European Directive Compliance:	^a 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, IEC 60227-5, EN 50525-3-11, EN 61034-2, BS 6360	

Product Notes

Notes:	Smoke/Halogen Properties : IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2
History	

Update and Revision Number: 0.19 Revision Date: 07-05-2024

Part Numbers

Variants

ltem #	Color	Length
12G4SH 010100M	Black	100 m
12G4SH 010200M	Black	200 m
12G4SH 010300M	Black	300 m
12G4SH 006100M	Blue	100 m
12G4SH 006200M	Blue	200 m
12G4SH 006300M	Blue	300 m
12G4SH G8U100M	Gray, RAL 7001	100 m
12G4SH G8U200M	Gray, RAL 7001	200 m
12G4SH G8U300M	Gray, RAL 7001	300 m

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