Product: H16X1.0CY

MachFlex™ 610CY, 16 C 1.0mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 610CY, 16 Conductor 1.0mm² 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.

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1 mm²	Class 5	BC - Bare Copper	16

Conductor Count:	16

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
…
Black #16

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	18.6 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
19.5 Ohm/km

Voltage

Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating

4000 V	IEC:	600/1000 V

Temperature Range

Installation Temperature Range:	-40°C to +80°C
Operating Temperature Range:	-5°C to +70°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	508 kg/km
Min. Bend Radius During Installation:	6 x OD
Min. Bend Radius During Operation:	20 x OD

Standards

Other Specification:	IEC 60227-5, EN 50525-2-51, VDE 0281-13

Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2

Related Part Numbers

Variants

Item #	Color	Length
H16X1.0CY 010500M	Black, RAL 9005	500 m
H16X1.0CY 0101000M	Black, RAL 9005	1,000 m
H16X1.0CY G8U500M	Gray, RAL 7001	500 m
H16X1.0CY G8U1000M	Gray, RAL 7001	1,000 m
H16X1.0CY 003500M	Orange, RAL 2003	500 m
H16X1.0CY 0031000M	Orange, RAL 2003	1,000 m

History

Update and Revision:	Revision Number: 0.20 Revision Date: 04-08-2022

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