



Product: [H18X2.5CY](#)

MachFlex™ 610CY, 18 C 2.5mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 610CY, 18 Conductor 2.5mm² 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)	2.5 mm ²	Class 5	BC - Bare Copper	18

Conductor Count: 18

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #18

Inner Jacket

Material
PVC - Polyvinyl Chloride

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	24.6 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR

7.98 Ohm/km

Voltage

Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	600/1000 V

Temperature Range

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

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	1025 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
H18X2.5CY 010200M	Black, RAL 9005	200 m
H18X2.5CY 010305M	Black, RAL 9005	305 m
H18X2.5CY G8U200M	Gray, RAL 7001	200 m
H18X2.5CY G8U305M	Gray, RAL 7001	305 m
H18X2.5CY 003200M	Orange, RAL 2003	200 m
H18X2.5CY 003305M	Orange, RAL 2003	305 m

History

Update and Revision:	Revision Number: 0.16 Revision Date: 12-15-2021
----------------------	---

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.