



Product: <u>4C0.5HCH</u>

MachFlex™ LiHCH, 4 C 0.5mm² Str BC, PE Ins, TCBS, LSZH Jkt

Product Description

MachFlexTM LiHCH LSZH Control & Signal Cables, 4 Conductor 0.5mm² Stranded Bare Copper, Polyethylene Insulation, Tinned Copper Braid Shield, LSZH Jacket

Technical Specifications

Product Overview

	Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, pressure gauge, temperature controllers, control
Suitable	panels, vibration monitoring systems, intelligent security controllers, production machinery and many more. Tinned cooper braid shield ensure the cables with excellent noise immunity. This
Applications:	LSZH version with UL certification 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 Ele	ments Size	Stranding	Material
Conductor(s) 4	0.5 m	m ² Stranded	BC - Bare Copper
Insulation			
Material	Color Cod		
PE - Polyethylene White	, Brown, Gree	n, Yellow	
Outer Shield			
Shield Type Mate	rial		
Braid Tinned Co	oper (TC)		
Outer Jacket			
	erial		
LSZH - Low Smoke Zero	Halogen (Flan	e Retardant)	
Overall Cable 5.2	mm (0.20 in)		
Diameter (Nominal): 0.2	. ,		
Electrical Characte	ristics		
Electricals			
Nom. Capacitance Conc	-to-Cond No	m. Capacitan	ce Cond-to-Shield
80 pF/m (24 pF/ft)	12	0 pF/m (37 pF/	ft)
Voltage			
	age Rating		
500 V (Max. Operating Vo	ltage), 1500 \	(Testing Volta	ige)
Mechanical Charac	teristics		

Temperature

Operating	Installation
5°C to +70°C(Occasional movement)	40°C to +80°C(Fixed installation)

Installation Min. Flexing Min.

31.2 mm (1.23 in) 78 mm (3.1 in)

Bulk Cable Weight: 42 kg/km (28 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance			
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2			
ISO/IEC Compliance:	IEC 60228			
CENELEC Compliance:	EN 50290-2-22, EN 50363-4-1			
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = IEC 60754-1, IEC 60754-2			
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)			
Other Standard Compliance(s):	EN 61034-2, VDE 0812, DIN 47100, 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:

Revision Number: 0.27 Revision Date: 01-09-2024

Part Numbers

Variants

ltem #	Color	Length
4C0.5HCH 010100M	Black	100 m
4C0.5HCH 010200M	Black	200 m
4C0.5HCH 010300M	Black	300 m
4C0.5HCH 006100M	Blue	100 m
4C0.5HCH 006200M	Blue	200 m
4C0.5HCH 006300M	Blue	300 m
4C0.5HCH F2V100M	Gray, RAL 7032	100 m
4C0.5HCH F2V200M	Gray, RAL 7032	200 m
4C0.5HCH F2V300M	Gray, RAL 7032	300 m

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