



**Product:** [HKX31.0](#)

MachFlex™ ONE 350 2X, 1 C 1 mm<sup>2</sup> Str BC, XLPO Ins

### Product Description

MachFlex™ ONE 350 2X, 1 Conductor 1 mm<sup>2</sup> Stranded Bare Copper, XLPO Insulation

### Technical Specifications

#### Product Overview

Suitable Applications:	Designed for applications which Laying in tubes, exposed or buried in plaster, and in closed installation ducts. Suitable for assembling cable harnesses and wiring during switch cabinet installation. These are highly durable & ruggedized cables meeting high flame retardant rating and low smoke and toxicity density.
------------------------	--

#### Construction Details

##### Conductor

Element	Size	Stranding	Material
Conductor(s)	1 mm <sup>2</sup>	Class 5	BC - Bare Copper

Table Notes: H05Z-K

##### Insulation

Material	Nom. Insulation Diameter
XLPO - Crosslink Polyolefin	2.5 mm (0.098 in)

#### Electrical Characteristics

##### Voltage

UL Voltage Rating	Voltage Rating
300 V	300 / 500 V (IEC)

#### Mechanical Characteristics

##### Temperature

Operating	Installation
IEC / EN: -35°C to +90°C, UL: -20°C to +105°C (Occasional movement)	IEC / EN: -55°C to +90°C, UL: -30°C to +105°C (Fixed installation)

##### Bend Radius

Installation Min.	Flexing Min.
10 mm (0.39 in)	20 mm (0.79 in)

Bulk Cable Weight: 14 kg/km (9.4 lbs/1000ft)

#### Standards and Compliance

Environmental Suitability:	Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-22, DIN VDE 048233212
AWM Compliance:	AWM 3286
ISO/IEC Compliance:	IEC 60228
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	HD 22.9, UL 758, UL 1581, EN 50290-2-26, BS 6360

## Product Notes

Notes:	Smoke Density : IEC 61034, ASTM E-662, Halogen Content : IEC 60754-1, Acid Gas Emission : IEC 60754-2 General Reference Standards : DIN VDE 0295, DIN VDE 0207-363-5, EN 50525-3-41, VDE 0282-9
--------	---

## History

Update and Revision:	Revision Number: 0.32 Revision Date: 09-12-2024
----------------------	---

## Part Numbers

### Variants

Item #	Color	Length
HKX31.0 010100M	Black	100 m
HKX31.0 010200M	Black	200 m
HKX31.0 010300M	Black	300 m
HKX31.0 008100M	Gray	100 m
HKX31.0 008200M	Gray	200 m
HKX31.0 008300M	Gray	300 m
HKX31.0 189100M	Yellow/Green	100 m
HKX31.0 189200M	Yellow/Green	200 m
HKX31.0 189300M	Yellow/Green	300 m

© 2025 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.