

Product: <u>20G1.0CH</u> ⊠ MachFlex™ 350CH, 20 C+1G 1 mm² Str BC, PP Ins, TCBS, LSZH Jkt

Product Description

MachFlex™ 350CH, 20 Conductor + 1 Ground 1 mm² Stranded Bare Copper, PP Insulation, Tinned Copper Braid Shield, LSZH Jacket

Technical Specifications

Product Overview

Construction Details

| Conductor | | | | |
|--------------|-----------------|-------------------|-----------|------------------|
| Element | No. of Elements | Size | Stranding | Material |
| Conductor(s) | 19 | 1 mm ² | Class 5 | BC - Bare Copper |

Insulation

| Material | Color Code |
|-----------------------|--|
| PP - Polypropylene | Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18, Black #19 |
| PP - Polypropylene | Green/Yellow |

Outer Shield

| Shield Type | Material | |
|-------------|--------------------|--|
| Braid | Tinned Copper (TC) | |

Inner Jacket

Material LSZH - Low Smoke Zero Halogen (Flame Retardant)

Outer Jacket

| Material | Nom. Diameter |
|---|--------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 16.6 mm (0.654 in) |

Electrical Characteristics

Voltage

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

Mechanical Characteristics

| Temperature | | |
|--------------------------------------|------------------------------------|--|
| Operating | Installation | |
| -30°C to +70°C (Occasional movement) | -40°C to +80°C(Fixed installation) | |

Bend Radius

Installation Min. Flexing Min.

99.6 mm (3.92 in) 332 mm (13.1 in)

Bulk Cable Weight: 432 kg/km (290 lbs/1000ft)

Standards and Compliance

| Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h |
|--|
| IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2 |
| IEC 60228 |
| EN 50290-2-25, EN 50290-2-27 |
| EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2) |
| VDE 0295, IEC 60227-5, EN 50525-3-11, BS 6360 |
| |

Product Notes

| Notes: Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2 | | |
|---|--|--|
| History | | |
| | | |

| Update and Revision: | Revision Number: 0.21 Revision Date: 07-15-2024 |
|-------------------------|---|
|-------------------------|---|

Part Numbers

Variants

| ltem # | Color | Length |
|------------------|----------------|--------|
| 20G1.0CH 010100M | Black | 100 m |
| 20G1.0CH 010200M | Black | 200 m |
| 20G1.0CH 010300M | Black | 300 m |
| 20G1.0CH 006100M | Blue | 100 m |
| 20G1.0CH 006200M | Blue | 200 m |
| 20G1.0CH 006300M | Blue | 300 m |
| 20G1.0CH G8U100M | Gray, RAL 7001 | 100 m |
| 20G1.0CH G8U200M | Gray, RAL 7001 | 200 m |
| 20G1.0CH G8U300M | Gray, RAL 7001 | 300 m |

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