

# FL CAT5 FLEX Category 5 Ethernet Cable

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## 1. Description

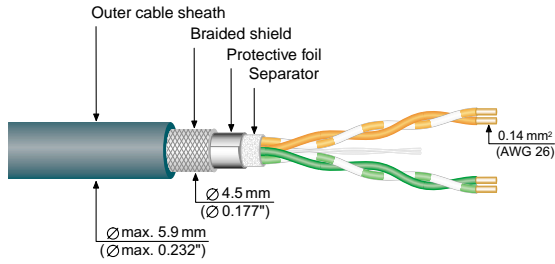
The **FL CAT 5 FLEX...** flexible cable is used for internal control cabinet wiring (not for flexible cable track applications), for example as the patch cable between the hub and terminal device. It has been specifically developed for Category 5 industrial Ethernet applications (up to 100 Mbps). Flexible, twisted-pair individual wires and a cable diameter of 5.2 mm (0.205 in.) make installation easier where there is limited space. The permissible length for this highly flexible cable is 50 m (164.04 ft.).

**FL PLUG...** connectors and the corresponding **FL CRIMPTOOL** crimping pliers are available for field termination. It is recommended that the connector set (2 connectors) with the gray bending protection bushing be used for uncrossed connections and that the connector set with the green bending protection bushing be used for crossover connections.



Should you have any technical questions, please contact us:  
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## 2. Technical Data



### FL CAT5 FLEX

Category 5 Ethernet cable for the flexible connection of devices  
(not for flexible cable track applications)

<b>Description</b>
<b>CAT 5-S/UTP cable,</b> light flexible installation cable 2 x 2 x 0.14 mm <sup>2</sup> (26 AWG), finely stranded, shielded, outer cable sheath: 5.2 mm ø (0.205 in.)
<b>RJ45 connector set, shielded,</b> with bending protection bushing, 2 pieces <b>Crimping pliers,</b> for assembling the RJ45 connectors <b>Stripping tool</b>
<ul style="list-style-type: none"> <li>• Gray for straight cable</li> <li>• Green for straight cable</li> </ul>

Type	Order No.	Pcs. Pkt.
<b>FL CAT5 FLEX</b>	<b>27 44 83 0</b>	1
<b>FL PLUG RJ-45 GR/2</b>	<b>27 44 85 6</b>	1
<b>FL PLUG RJ-45 GN/2</b>	<b>27 44 57 1</b>	1
<b>FL CRIMPTOOL</b>	<b>27 44 86 9</b>	1
<b>CYCLOPS</b>	<b>12 04 48 1</b>	1

**Technical Data**

**Electrical properties**

Loop resistance  
Operating capacity  
Impedance

284 Ω/km, maximum  
48 nF/km  
100 Ω ±15 Ω

**Outer cable sheath**

Material  
Color  
Diameter  
Shielding

Halogen-free compound, HM 2 in accordance with VDE 0207  
RAL 5021 soluble blue  
5.6 mm to 5.9 mm (0.220 in. to 0.232 in.)  
Plastic-coated aluminum foil,  
braid from tin-plated copper wires (UTP/BS),  
coverage 85% ±5%  
PHOENIX CONTACT FL CABLE CAT.5 FLEX 2 x 2 x 26 AWG  
and continuous meter marking

**Marking**

**Individual wires**

Wires  
Cross-section  
Insulation

Material  
Diameter

Stranded copper wire, plain  
0.14 mm<sup>2</sup> (26 AWG)  
Foam skin (polyethylene)

Twisting  
Colors

Pair 1  
Pair 2

1.0 mm (0.039 in.)  
Wires twisted into pairs, pairs twisted into cable cores  
White/orange – orange  
White/green – green

**Weight**

**Abbreviated cable designation**

**Temperature range**

during installation  
in operation

43 kg/km, approximately  
J-LI02YS(ST) CH 2 x 2 x 26 AWG  
-5°C to +60°C (+23°F to +140°F)  
-30°C to +80°C (-22°F to +176°F)

**Bending radii and tensile forces**

Minimum bending radius

flexible  
permanently installed

78 mm (3.071 in.) (not for flexible cable track applications)  
30 mm (1.181 in.)

Permissible tensile load

during installation  
after installation

50 N  
10 N

**Material properties**

Fire load  
Burning behavior  
Chloroform test

0.20 kWh/m  
Flame-retardant in accordance with VDE 0482, Part 265-2-1 / IEC 332-1  
Free of substances, which would hinder coating with paint or varnish in accordance with the central standard 57 650 of VW, Audi and Seat  
Halogen-free compound, HM 2 in accordance with VDE 0207

Free of halogen