

FL CAT5 HEAVY Category 5 Ethernet Cable

1. Description

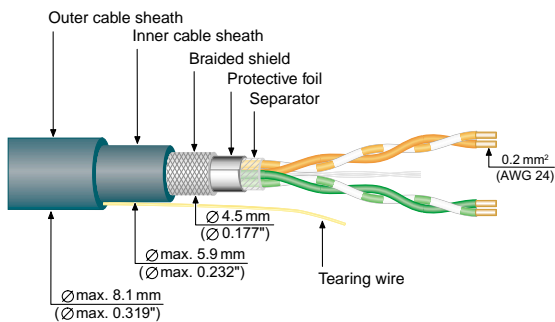
The **FL CAT 5 HEAVY...** installation cable with twisted-pair solid wires is particularly suitable for permanent installation outside the control cabinet/switch box. It has been specifically developed for Category 5 industrial Ethernet applications (up to 100 Mbps) and features a very robust second outer sheath made from polyurethane (PUR). With an outside diameter of 7.8 mm (0.307 in.), the cable has a high level of mechanical capability and is ideal for leading through standard PG-threaded joints. Within the control cabinet, the second outer sheath is easily removed using a tearing wire. The diameter is then 5.2 mm (0.205 in.), enabling the cable to be directly assembled with the RJ45 connector and connected to the modules. Cable lengths up to 100 m (328.08 ft.) are permitted in accordance with CAT 5.

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 HEAVY

Heavy Category 5 Ethernet cable for permanent installation

Description
CAT 5-S/UTP cable, heavy installation cable 2 x 2 x 0.22 mm ² (24 AWG), shielded solid wire, outer cable sheath: 7.8 mm ø (0.307 in.), inner cable sheath: 5.2 mm ø (0.205 in.)
RJ45 connector set, shielded, with bending protection bushing, 2 pieces
<ul style="list-style-type: none"> • Gray for straight cable • Green for straight cable
Crimping pliers, for assembling the RJ45 connectors
Stripping tool

Type	Order No.	Pcs. Pkt.
FL CAT5 HEAVY	27 44 81 4	1
FL PLUG RJ-45 GR/2	27 44 85 6	1
FL PLUG RJ-45 GN/2	27 44 57 1	1
FL CRIMPTOOL	27 44 86 9	1
CYCLOPS	12 04 48 1	1

Technical Data	
Electrical properties	
Loop resistance	192 Ω/km, maximum
Operating capacity	48 nF/km
Impedance	100 Ω ±15 Ω
Outer cable sheath	
Material	Halogen-free PUR compound, HM 2 according to VDE 0207
Color	RAL 5021 soluble blue
Diameter	7.8 mm (0.307 in.) ±0.3 mm (0.012 in.)
Tearing wire	Lengthways, metal-free to tear the outer cable sheath
Marking	PHOENIX CONTACT FL CABLE CAT.5 HEAVY 2 x 2 x 24 AWG and continuous meter marking
Inner cable sheath	
Material	Halogen-free compound, HM 2 in accordance with VDE 0207
Color	RAL 5021 soluble blue
Diameter	5.6 mm to 5.9 mm (0.220 in. to 0.232 in.)
Shielding	Plastic-coated aluminum foil, braid from tin-plated copper wires (UTP/BS), coverage 85% ±5%
Individual wires	
Wires	Solid copper wire, plain
Cross-section	0.2 mm ² (24 AWG)
Insulation	Foam skin (polyethylene)
	Diameter
	1.0 mm (0.039 in.)
Twisting	Wires twisted into pairs, pairs twisted into cable cores
Colors	Pair 1: White/orange – orange
	Pair 2: White/green – green
Weight	
Abbreviated cable designation	68 kg/km, approximately
Temperature range	J-02YS(ST) C HP 2 x 2 x 24 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	45 mm (1.772 in.) (with outer cable sheath)
	30 mm (1.181 in.) (without outer cable sheath)
Permissible tensile load	130 N
	65 N
Material properties	
Fire load	0.40 kWh/m
Burning behavior	Flame-retardant in accordance with VDE 0482, Part 265-2-1 / IEC 332-1
Chloroform test	Free of substances, which would hinder coating with paint or varnish in accordance with the central standard 57 650 of VW, Audi and Seat
Free of halogen	Halogen-free compound, HM 2 in accordance with VDE 0207

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