

# FL PLUG RJ45 GR/2 - RJ45 connector



2744856

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, connection cross section: AWG 26- 24, cable outlet: straight, color: gray, Ethernet

The figure shows the version FL  
PLUG RJ45 GN/2

## Your advantages

- Set of 2 connectors
- Easy installation with a crimping tool
- With gray bend protection sleeve: recommended for straight, uncrossed cables

## Commercial data

Item number	2744856
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAG
GTIN	4017918607579
Weight per piece (including packing)	18.8 g
Weight per piece (excluding packing)	6.596 g
Customs tariff number	85366990
Country of origin	US

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## Technical data

### Product properties

Product type	Data connector (cable side)
Type	RJ45
Number of positions	8
Connection profile	RJ45
Cable outlet	straight
Positions/contacts	8P8C

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Contact resistance	< 100 mΩ (max.)
Frequency range	100 MHz
Insulation resistance	> 500 MΩ
Nominal current $I_N$	1.5 A
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ
Transmission medium	Copper
Transmission speed	1 Gbps
Transmission characteristics (category)	CAT5
Transmission speed	1 Gbps

### Connection data

#### Connection technology

Connection method	Crimp connection
Connection cross section AWG	26 ... 24 (solid)
	26 ... 24 (flexible)
Conductor cross-section	0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (solid)
	0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (flexible)

### Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801:2002), 1 Gbps
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### Dimensions

Width	13.7 mm
Height	13.1 mm
Length	32.7 mm

### Material specifications

Color	gray
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Flammability rating according to UL 94	V0
Housing material	Plastic
Contact material	Phosphor bronze
Contact surface material	Au/Ni
Contact carrier material	PC
Locking latch material	PC

## Cable/line

Signal type/category	Ethernet CAT5 (IEC 11801:2002), 1 Gbps
External cable diameter	4.6 mm ... 5.8 mm
Cable cross section	0.14 mm <sup>2</sup>
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1500.00 V

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	min. 2500
Insertion force per signal contact	< 20.00 N
Extraction force per signal contact	< 20 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Mounting

Mounting type	Crimp connection
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## Classifications

### ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

### ETIM

ETIM 10.0	EC002636
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.284 kg CO2e
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