

Technical data sheet

Actuator sensor interface · RJ45 connector

Industrial connector RJ45

Solid metal housing, quick-connect technology AWG 24–22

Cat.6A, protective cover pre-assembled



Identification

Type RJ45-M 8pol. Cat.6A T568B
Part No. [490174](#)

Product version

Datasheet version 00

General

Design	RJ45
Form male 1	RJ45 Straight Shielded
Degree of pollution	1
Insulation resistance	>500 MΩ
Contact resistance	<20 mΩ
Flamability according to UL 94	V0
Degree of protection	IP20
Housing material	Zinc die-casting
Color of the housing	Silver
Color	silver
Cover	PBT black
Contact material	Spring steel gold-plated
Strand diameter	1 mm – 1.6 mm
Cable diameter	5.5 mm – 10 mm
Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	13.9 mm × 16.3 mm × 53.8 mm
Mechanical service life	>750 insertion cycles

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SYSTEMATIC TECHNOLOGY

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Connection type	8-pole RJ45 Push-through contacts IDC
Cross-section AWG	24-22/1, 24-22/7,19
Weight/unit	0.025 kg
PU (units)	1

Technical data

Rated voltage U_N	30 V
Max. Power PoE	PoE+ IEEE 802.3at 30W
Rated current	≤ 1 A per contact
Pole number	8
Bandwidth	500 MHz
Transfer rate	10 Gbit/s
Category	Cat.6 _A
Shielding	shielded

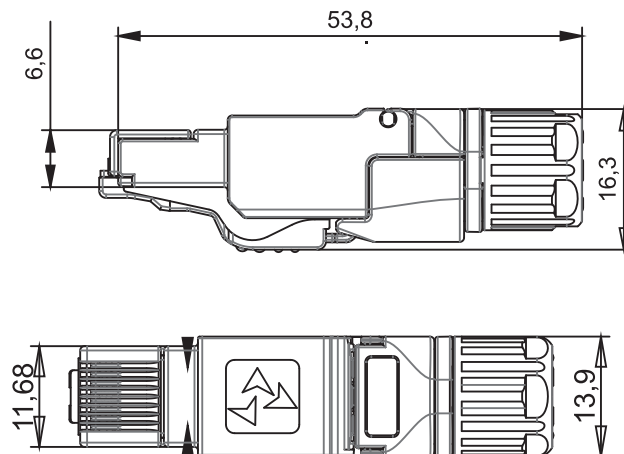
Certifications/Standards

Certifications	cULus Listed (E326112)
Standards	IEC 60603-7-51

Notes and Comments

Comments	Suitable for Profinet, SERCOS3, Ethercat, Ethernet/IP, Powerlink, VARAN, Power over Ethernet+ (PoE+IEEE 802.3at) Suitable cables, see overview assignment Ethernet cables to connectors
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Dimensions



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Connection assignment

RJ45 male
Ethernet T568B

1	■	WH-OG	○
2	■	OG	○
3	■	WH-GN	○
4	■	BU	○
5	■	WH-BU	○
6	■	GN	○
7	■	WH-BN	○
8	■	BN	○

Mounting diagram

