



Main

Range name	Actassi
Product type	RJ45 network socket
Type of footprint	S-One
Device presentation	Integrated one piece design
Performance category	6
Compatible LAN cable types	F/UTP S/FTP SF/UTP U/FTP F/FTP
Supported applications	1000BASE-T
Protocols	PoE+ (Power over Ethernet) VoIP (Voice IP)
Material and colour (category colour coded)	Connector: silver (zamak) Wire organizer: blue (ABS + PC)
Colour coding	568 A/B
Quantity per set	Set of 96
Length	35 mm
Width	18 mm
Height	28 mm

Complementary

Frequency range	≤ 250 MHz
Protection type	Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier
Voltage proof	1000 V AC/DC, peak, between contacts 1500 V AC/DC, peak, between contacts and shield
Current rating	≤ 1.5 A @25 °C
Insulation resistance	≤ 500 MOhm @100 V
Electrical resistance	≤ 200 mOhm
Transfer impedance	≤ 0.1 Ohm at 1 MHz ≤ 0.2 Ohm at 10 MHz ≤ 1.6 Ohm at 80 MHz
Coupling attenuation	≥ 45 dB from 30...100 MHz $\geq 85 - 20 \times \log(f)$ dB from 100...1000 MHz
Transverse conversion loss	≥ 50 dB $\geq 68 - 20 \times \log(f)$ dB from 1 kHz...250 MHz
Contact pins	8 pins in copper alloy and gold plated (IEC 60603-7)
Durability	≥ 750 cycles
IDC wire diameter	AWG22...AWG25
Insulation diameter (wire)	0.9...1.4 mm
Pulling force	50 N during 60 s
Applicable standards	IEC 60603-7-5 ISO/IEC 11801 Ed2.1 ISO/IEC 11801 amd2:2010 ANSI/TIA-568-C.2

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Environment

Operational temperature range	-40...70 °C
Environmental characteristic	PEP (Energy depletion) REACH
Climatic category	40/070/21 (21 days)
RoHS EUR status	Compliant
RoHS EUR conformity date	1101