



### 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)	Wire organizer: blue (ABS + PC) Connector: silver (zamak)
Colour coding	568 A/B
Quantity per set	Set of 12
Length	35 mm
Width	18 mm
Height	28 mm

### Complementary

Frequency range	$\leq 250$ kHz
Protection type	Integrated short circuit barrier Metallic: 360° self adjusting + drain wire contact
Voltage proof	1500 V AC/DC, peak, between contacts and shield 1000 V AC/DC, peak, between contacts
Current rating	$\leq 1.5$ A @25 °C
Insulation resistance	Initial insulation resistance: $\leq 500$ MOhm @100 V DC
Electrical resistance	$\leq 200$ Ohm
Transfer impedance	$\leq 0.1$ Ohm at 1 MHz $\leq 0.2$ Ohm at 10 MHz $\leq 1.6$ Ohm at 80 MHz
Coupling attenuation	$\geq 85 - 20 \times \log(f)$ dB from 100...1000 MHz $\geq 45$ dB from 30...100 MHz
Transverse conversion loss	$\geq 68 - 20 \times \log(f)$ dB from 1 kHz...250 MHz $\geq 50$ dB
Contact pins	8 pins in copper alloy and gold plated (IEC 60603-7)
Durability	$\geq 750$ 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 ANSI/TIA-568-C.2 ISO/IEC 11801:2011 Ed.2.2

### Environment

Operational temperature range	-40...70 °C
Environmental characteristic	PEP (Energy depletion) REACH
Climatic category	40/070/21 (21 days)