# Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

# Actassi S-One Connector RJ45 Shielded Cat 6A 40M - pk x 10



VDIB177AXB10TN

Range Actassi  Product type R445 network socket  Device presentation Integrated one piece design  Colour tint Connector: silver (zamak) Wire organizar: dat blue (ABS + PC) Connector tousing: translucent (ABS + PC) Wirring Colour configuration 568 A/B  Quantity per set Set of 1  Complementary  [In] rated current 1.5 A at 25 °C Voltage proof 1000 V AC/DC peak, between contacts 1550 V AC/DC peak, between contacts and shield  Contact resistance 20 mOhm  Insulation resistance Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge AWG 23AWG 24  Durability 750 cycles  Coupling attenuation >= 45 dis at 30100 MHz >= 85 s. 20 x log(f) dis at 1001000 MHz  >= 85 s. 20 x log(f) dis at 1001000 MHz  >= 100.00 M during 60 s  Transfer impedance = 0.00 hm at 1 MHz = (0.00 M m at 100 M m	Main	
Device presentation Integrated one piece design  Colour tint Connector: silver (zamak) Wire organizer: dark blue (ABS + PC) Connector housing: translucent (ABS + PC) Wirring Colour configuration 568 A/B  Quantity per set Set of 1  Complementary  [In] rated current 1.5 A at 25 °C  Voltage proof 1000 V AC/IDC peak, between contacts 1500 V AC/IDC peak, between contacts and shield  Contact resistance 20 mChm  Insulation resistance initial insulation resistance: >= 500 MChm at 100 V DC  AWG gauge AWG 23AWG 24  Durability 750 cycles  Coupling attenuation >= 4.5 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins 8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type Metallic: 360° self adjusting + drain wire contact integrated short circuit barrier  Pulling force 50 N during 60 s  Transfer impedance <= 0.1 0 hm at 1 MHz <= 0.2 0 hm at 1 0 MHz <= 1.6 0 hm at 80 MHz  Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type Punch down tool Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category	Range	Actassi
Colour tint  Connector: silver (zamak) Wire organize: dark blue (ABS + PC) Connector housing: translucent (ABS + PC) Wiring Colour configuration  668 A/B  Quantity per set  Set of 1  Complementary  [In] rated current  1.5 A at 25 °C  Voltage proof  1000 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts and shield  Contact resistance  20 mOhm  Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 1.0 Ohm at 10 MHz <= 1.0 Ohm at 10 MHz <= 1.0 Ohm at 10 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  AB Set of 1  Communication network category  Set of 1  Communication network category  AB A  Electric dark and busing: translucent (ABS + PC) Communication network category  Communication network category	Product type	RJ45 network socket
Wire organizer dark blue (ABS + PC) Connector housing: translucent (ABS + PC) Wiring Colour configuration  568 A/B  Quantity per set  Set of 1  Complementary  [In] rated current  1.5 A at 25 °C  Voltage proof  1000 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts and shield  Contact resistance  20 mOhm Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° set fadjusting + drain wire contact integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 1.0 Ohm at 10 MHz <= 1.0 Ohm at 10 MHz  Transverse conversion loss  >= 50 dB >= 88 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  Set of 1	Device presentation	Integrated one piece design
Complementary  [In] rated current  1.5 A at 25 °C  Voltage proof  1000 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts and shield  Contact resistance  20 mOhm  Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  = 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  ACC ACC Peak, between contacts 100 V AC/DC peak, between contacts 1100 V AC/DC peak, between contacts 1100 V AC/DC peak, between contacts and shield 1100 V AC/DC Peak, between contacts and shi	Colour tint	Wire organizer: dark blue (ABS + PC)
Complementary  [In] rated current  1.5 A at 25 °C  Voltage proof  1000 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts and shield  Contact resistance  20 mOhm  Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  AWG 23AWG 24  AWG 24AWG 24  AWG 23AWG 24  AWG 24AWG 24  AWG 24AWG 24  AWG 23AWG 24  AWG 24AWG 24  AWG 23AWG 24  AWG 24AWG 24  AWG 24AWG 24  AWG 24	Wiring Colour configuration	568 A/B
Inj rated current	Quantity per set	Set of 1
Voltage proof  1000 V AC/DC peak, between contacts 1500 V AC/DC peak, between contacts and shield  Contact resistance  20 mOhm  Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  AWG 23AWG 24  AWG 23AWG	Complementary	
1500 V AC/DC peak, between contacts and shield	[In] rated current	1.5 A at 25 °C
Insulation resistance  Initial insulation resistance: >= 500 MOhm at 100 V DC  AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 0.16 Ohm at 80 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category	Voltage proof	
AWG gauge  AWG 23AWG 24  Durability  750 cycles  Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  6A	Contact resistance	20 mOhm
Durability 750 cycles  Coupling attenuation >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins 8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force 50 N during 60 s  Transfer impedance <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type Punch down tool Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category  6A	Insulation resistance	Initial insulation resistance: >= 500 MOhm at 100 V DC
Coupling attenuation  >= 45 dB at 30100 MHz >= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins  8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  6A	AWG gauge	AWG 23AWG 24
>= 85 - 20 x log(f) dB at 1001000 MHz  Contact pins 8 pins of copper alloy and gold plated conforming to IEC 60603-7  Shield Type Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force 50 N during 60 s  Transfer impedance <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type Punch down tool Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category 6A	Durability	750 cycles
Shield Type  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  Pulling force  50 N during 60 s  Transfer impedance  <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss  >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type  Punch down tool Quick termination tool  Cable outer diameter  0.91.4 mm  Compatible LAN cable types  STP  Communication network category  Metallic: 360° self adjusting + drain wire contact Integrated short circuit barrier  ### Additional Contact Integrated	Coupling attenuation	
Integrated short circuit barrier  Pulling force 50 N during 60 s  Transfer impedance <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type Punch down tool Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category 6A	Contact pins	8 pins of copper alloy and gold plated conforming to IEC 60603-7
Transfer impedance <= 0.1 Ohm at 1 MHz <= 0.2 Ohm at 10 MHz <= 1.6 Ohm at 80 MHz  Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz  Tool type Punch down tool Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category 6A	Shield Type	
Transverse conversion loss >= 50 dB >= 68 - 20 x log(f) dB at 1500000 kHz Tool type Punch down tool Quick termination tool Cable outer diameter 0.91.4 mm Compatible LAN cable types STP Communication network category 6A	Pulling force	50 N during 60 s
>= 68 - 20 x log(f) dB at 1500000 kHz  Tool type	Transfer impedance	<= 0.2 Ohm at 10 MHz
Quick termination tool  Cable outer diameter 0.91.4 mm  Compatible LAN cable types STP  Communication network category 6A	Transverse conversion loss	
Compatible LAN cable types STP  Communication network 6A category	Tool type	
Communication network 6A category	Cable outer diameter	0.91.4 mm
category	Compatible LAN cable types	STP
Supported applications 10GBASE-T		6A
	Supported applications	10GBASE-T

Valla (Arias III)
VoIP (Voice IP) PoE+ (Power over Ethernet) 4PPoE 100W (Power over Ethernet)
S-One 40 mech
28 mm
35 mm
18 mm
Europe Asia Pacific.

### **Environment**

Operational temperature range	-4070 °C
Climatic category	40/070/21 (21 days)
Flame retardance	UL94-V0 conforming to UL listed
Product certifications	RCM
Standards	ANSI/TIA-568-C.2 AS/NZS 3080 AS/CA S008 ISO/IEC 11801 EN 50173 IEC 60603-7-51

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	32.0 g
Package 1 Height	3 cm
Package 1 width	4 cm
Package 1 Length	6 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Weight	820.0 g
Package 2 Height	6.5 cm
Package 2 width	12.7 cm
Package 2 Length	18.2 cm
Unit Type of Package 3	CAR
Number of Units in Package 3	10
Package 3 Weight	381.0 g
Package 3 Height	6.5 cm
Package 3 width	12.7 cm
Package 3 Length	18.2 cm
Package 3 Length	18.2 cm

# Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
<b>Environmental Disclosure</b>	Product Environmental Profile