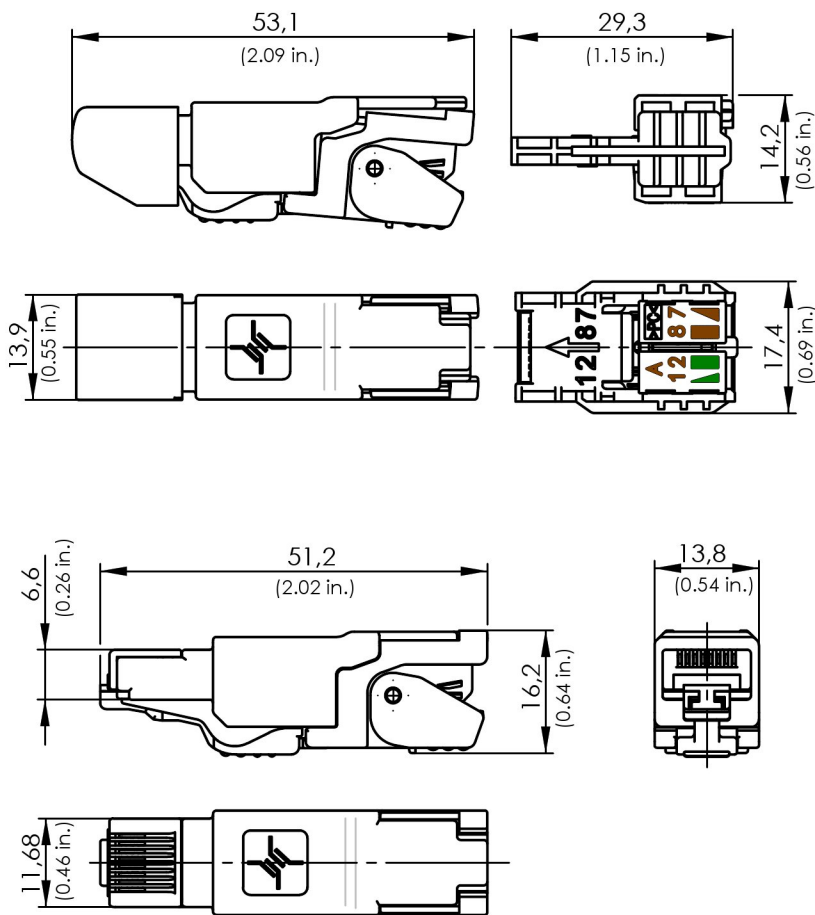
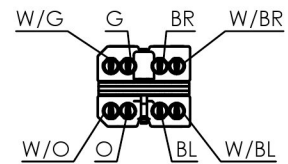
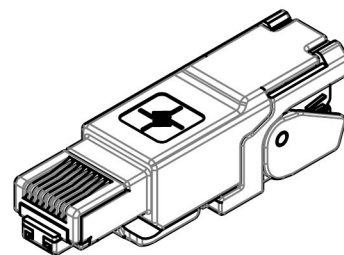
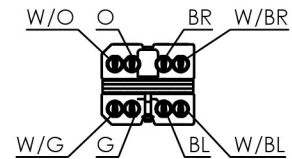




PIN assignment T568A according to TIA/EIA 568-C.2



PIN assignment T568B according to TIA/EIA 568-C.2



UNITS: mm (Inch)



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1275 Danner Drive Aurora, Ohio 44202
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Technical Data

Connector standard	IEC 60603-7-51
Mechanical Characteristics	
Insertion force	$\leq 30\text{N}$
Life	≥ 750
Cable to plug tensile strength	min 50N
Materials	
Connector housing	zinc diecast nickel-plated
Wire presorting	PC UL94 V0 white
Contact housing	PC UL 94 V0 crystal clear
Hook	PBT UL94 V0
Strain relief lever	PBT UL94 V0
Protection cap	PBT UL94 V0 black
PCB	FR4 UL94 V0
Piercing contacts	Phosphor Bronze, min. 3...6 μm Sn plated
Shield contact	brass; 2,5 μm Ni plated
Contacts	spring steel
Contact finish	min. 0,8 μm (30 μin) Au on 1,2 μm (50 μin) Ni
Cu-conductor diameter	solid 0,51 - 0,64 mm AWG 24/1 - AWG 22/1 stranded 0,46 - 0,76mm AWG 27/7 - AWG 22/7
Insulation diameter	0,85 - 1,6 mm (0.033 - 0.063 in.)
Cable diameter	5,0 - 9,0 mm (0,197-0,354 in)
Environmental Requirements	
Mechanical	
Shock	250 ms^{-2}
Vibration sinusoidal (9Hz - 500Hz)	50 ms^{-2}
Protection against ingress	
Particulate ingress	IP2X
Water / Immersion	IPX0
Climatical and chemical	
Ambient temperature	-40°C to +70°C
Rapid change of temperature	-40°C to +70°C / 25 cycles t=30min
Climatic damp heat	+25°C / +65°C / 93% RH // -10°C / 21 cycles
Flowing mixed gas	+25°C / 73% RH / 4 days - H ₂ S / SO ₂
Electrical Characteristics	
Contact resistance	$\leq 20\text{ m}\Omega$
Insulation resistance	$\geq 500\text{ M}\Omega$
Voltage proof	
Contact-contact	$\geq 1000\text{ V, DC}$
Contact-shield	$\geq 1500\text{ V, DC}$
Current carrying capacity at 50°C	1 A
PoE+ according to IEEE 802.3at	Adequate for Power over Ethernet+
Transmission Performance	
10 Gigabit Ethernet acc. to IEEE 802.3an	Adequate for 10 Gigabit Ethernet
Category 6 _A	ISO/IEC 11801; DIN EN 50173-1
Class E _A	ISO/IEC 11801; DIN EN 50173-1
Category 6A	ANSI/TIA/EIA-568-C.2
Standards	
Generic cable systems	ANSI/TIA/EIA-568-C.2; ISO/IEC 11801; DIN EN 50173-1



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