



## **QSFP+/QSFP+ 24G Half-Active Infiniband Cable**

- Active electronics provide for superior signal performance at medium distances
- Assembled with premium 100Ohm 28AWG, 26AWG or 24AWG cable
- Support for Infiniband, QDR/DDR/SDR applications
- RoHS compliant
- Lifetime warranty

# Specifications: QSFP+/QSFP+ 24G Half-Active Infiniband Cable

## Electrical characteristics:

<b>24AWG cable:</b>		<b>26AWG cable:</b>	
Differential impedance:	100 ± 5Ω	Differential impedance:	100 ± 5Ω
Mutual capacitance:	42pF/m nominal	Mutual capacitance:	14pF/ft nominal
Propagation delay:	4.25ns/m nominal	Time delay:	1.35ns/ft nominal
Skew (within pairs):	≤ 100ps/10m	Time delay skew (within pairs):	120ps/8.5m maximum
Skew (between pairs):	≤ 400ps/10m	Time delay skew (between pairs):	500ps/8.5m maximum
Attenuation:	0.86dB @ 1.25GHz	Attenuation:	10dB/8.5m @ 1.25GHz
Near end crosstalk (NEXT):	< 55dB @ 1.25GHz	Conductor DC Resistance:	0.04Ω/ft nominal @ 20°C
		Near end/far end crosstalk:	1% maximum
<b>28AWG cable:</b>			
Differential impedance:	100 ± 5Ω		
Mutual capacitance:	14pF/ft nominal		
Time delay:	1.35ns/ft nominal		
Time delay skew (within pairs):	120ps/7m maximum		
Time delay skew (between pairs):	500ps/7m maximum		
Attenuation:	10dB/7m @ 1.25GHz		
Conductor DC Resistance:	0.06Ω/ft nominal @ 20°C		
Near end/far end crosstalk:	1% maximum		

## Physical specifications:

<b>24AWG cable:</b>		<b>26AWG cable:</b>	
Conductors (eight pair):	24AWG Solid Silver plated copper	Conductors (eight pair):	26AWG Solid Silver plated copper
Insulation:	Foam polyolefin	Insulation:	Foam polyolefin
Pair drain wire:	27AWG Solid Tin plated copper	Pair drain wire:	28AWG Solid Tin plated copper
Pair shield:	Aluminum polyester tape 120% coverage	Pair shield:	Aluminum polyester tape 125% coverage
Overall cable shield:	Aluminum polyester tape 120% coverage Tin plated copper braid 36AWG, 85% coverage	Overall cable shield:	Aluminum polyester tape 125% coverage Tin plated copper braid 38AWG, 85% coverage
Outer diameter:	0.38 ± 0.015in	Outer diameter:	0.34in
<b>28AWG cable:</b>			
Conductors (eight pair):	28AWG Solid Silver plated copper		
Insulation:	Foam polyolefin		
Pair drain wire:	30AWG Solid Silver plated copper		
Pair shield:	Aluminum polyester tape 125% coverage		
Overall cable shield:	Aluminum polyester tape 125% coverage Tin plated copper braid 38AWG, 85% coverage		
Outer diameter:	0.31in		



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## Connector specifications:

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Connector type:	SFF-8436
Active component:	Integrated circuit
Hood material:	Die cast zinc Nickel plated
Contact plating:	30µ gold plated

Part Number	Description	AWG	Weight
06163	5m QSFP+/QSFP+ 24G Half-Active Infiniband Cable	28	1.01
06164	10m QSFP+/QSFP+ 24G Half-Active Infiniband Cable	26	1.94
06165	12m QSFP+/QSFP+ 24G Half-Active Infiniband Cable	26	2.35
06166	15m QSFP+/QSFP+ 24G Half-Active Infiniband Cable	24	2.80

