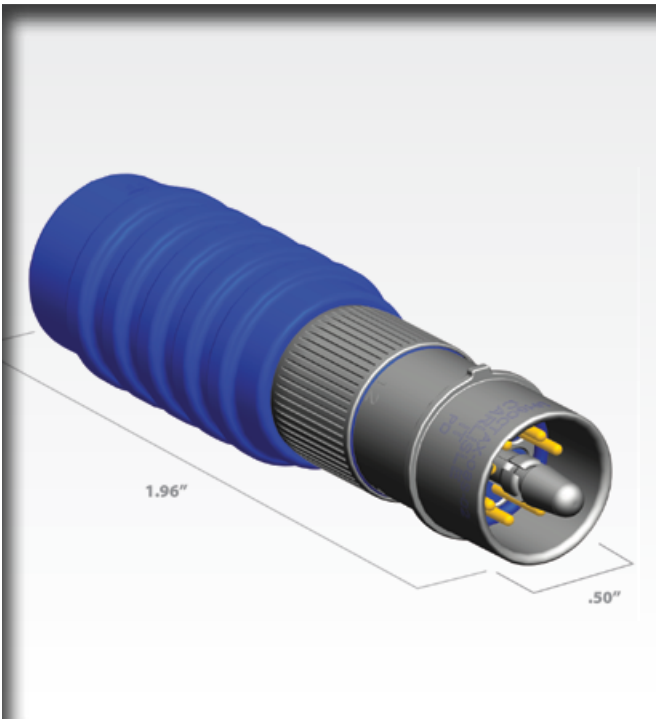


# Ultra High Speed Octax™ Socket Connector

**CARLISLE**  
INTERCONNECT TECHNOLOGIES



UHSOCTAX08S02



Note: Diameter measurement does not include rear seal.

## KEY CHARACTERISTICS

- » Capable of delivering data transfer speed of 10Gbits/sec or higher
- » Compliant with TIA/EIA and ISO CAT 6A test standards
- » Optimized for 1G and 10G applications
- » Robust latching system
- » Excellent corrosion resistance
- » Excellent shell to shell conductivity
- » Superb EMI shielding
- » Unique contact retaining mechanism for ease of manufacturing and field rework
- » Very compact and light weight
- » Highly precise CNC machined parts
- » Blind-mateable and Scoop-proof
- » Environmentally sealed
- » ROHS compliant

## IDEAL APPLICATION

- » Ethernet and High Definition video in aerospace applications
- » High speed data loading

## MECHANICAL PROPERTIES

- » Mating Cycles: > 1000
- » Mating/Unmating Force: 1 lb/1 lb
- » Contact Retaining Force: > 8 lbs

## PHYSICAL PROPERTIES

- » Operating Temperature Range: -55°C to 175°C
- » Weight: 4.0 grams and 6.5 grams with rear seal

## ELECTRICAL PROPERTIES

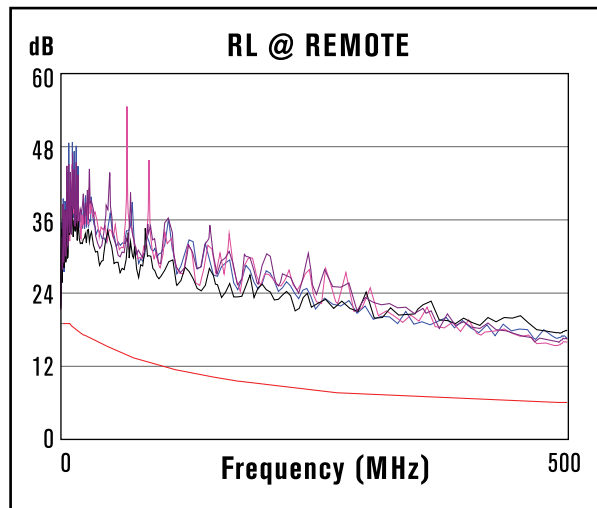
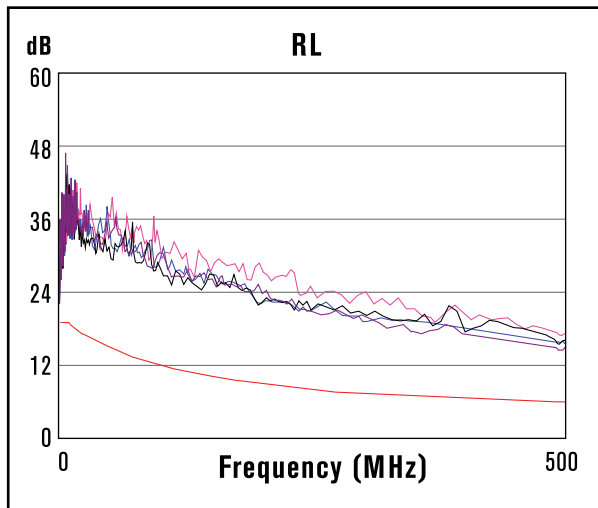
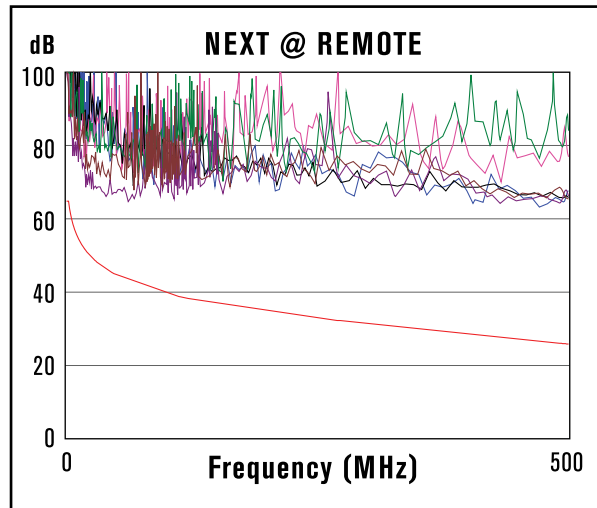
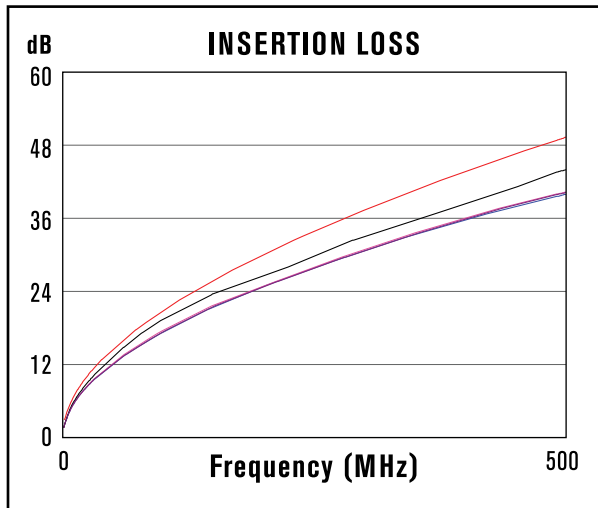
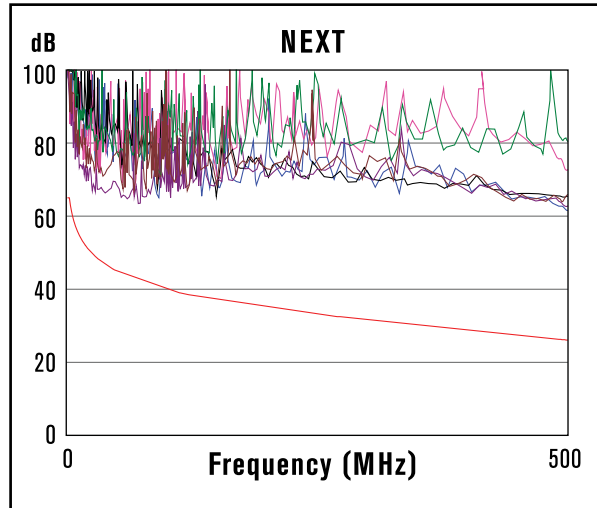
- » Dielectric Withstand Voltage: 1000 VDC
- » Current and Voltage Rating: 4 amps and 115 VAC
- » Shell to Shell Contact Resistance: < 3.0 milliohms
- » Insulation Resistance of Inserts: > 5.0x10<sup>9</sup> ohms

## MATERIAL

- » Shells: aluminum alloy plated with electroless nickel
- » Electrical Inserts: Thermoplastics
- » Strain Relief and Ferrule: aluminum alloy plated with electroless nickel
- » Set Screw: stainless steel
- » Seals: fluorosilicone

## CABLE & WIRE ACCOMODATION

- » Accommodates Cable O.D : 0.20"-0.32"
- » Optimized with CarlisleIT Cable P/N 26463/1A042X-8(LD) (10Gb)
- » Optimized with CarlisleIT Cable P/N NF26GB100 (1Gb)
- » Accommodates 26-22 gauge wire
- » Accepts Eight M39029/58-360 contacts



**Note:** Above graphs illustrate the main ethernet test results of the CarlisleIT Octax™ connectors and cable 26463/1A042X-8(LD). These charts were produced by using Fluke DTX 1800 test equipment with TIA/EIA-568 CAT 6A specification, 180 ft of cable, and 4 connectors. Drawings, test report, and other contact arrangements will be available upon request. Contacts are included with connector.