

# EXPANDED BEAM INTERCONNECT SOLUTIONS

ROBUST. VERSATILE. EASY-TO-USE.

## CONNECTOR BODIES



## HARSH ENVIRONMENT SOLUTIONS

- Multichannel: 1-12 channels available
- Hybrid optical and electrical option



# EXPANDED BEAM INTERCONNECTS

LENSED REVOLUTION



ROBUST.  
VERSATILE.  
EASY-TO-USE.



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v. 07/2020



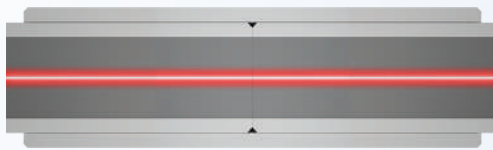
# THE PRINCIPAL OF EXPANDED BEAM

## DISCOVER NEW POSSIBILITIES

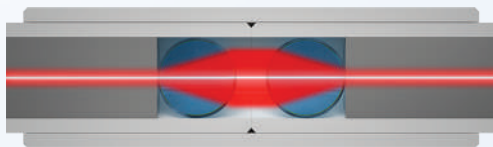
Unlike conventional ferrules, the lensed-ferrule operates on the Expanded Beam principle, ensuring reliable and maintenance-free optical connections with insensitivity to dirt and debris. The use of high precision components and unique assembly techniques results in a highly repeatable, low insertion loss ferrule, that opens new perspectives in the context of optical connections, where mating-cycles, dust insensitivity, reliability and low losses are required.

### Advantages of Expanded Beam

- Non-contact connection
- State-of-the-art optical performance
- High rate of mating cycles
- Insensitive to dirt and debris
- Low risk of damage
- Multichannel: 1-12 channels available
- High data rate capacity
- Easy cleaning process
- 150 x larger beam area



Butt-joint connection



Expanded Beam connection

# MODULAR LENSED INTERCONNECTS

## ROBUST & HIGH PERFORMING

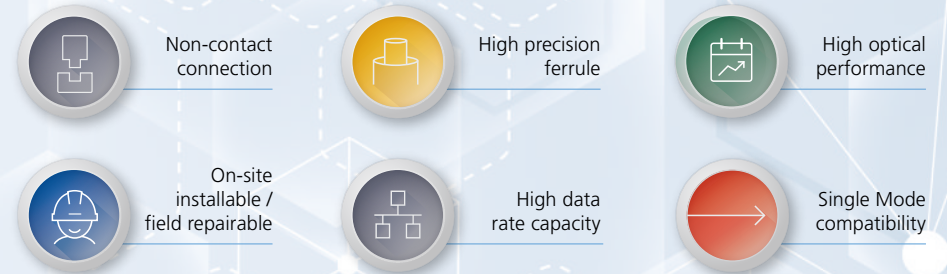
### EXPANDED BEAM (XB) LENSED-FERRULE

- High precision connector ferrule
- Single mode fibers 9µm
- Low Insertion Loss
- High power compatibility
- On-site installable / field-repairable
- Various connector bodies available



XB lensed-ferrule

### Features



### Optical specifications

Insertion Loss	Typical 0.6dB / Maximum 1dB per connection
Return Loss	Minimum 35dB
Optical power	Up to 3 Watts@1550nm

Short-term test on factory assembled E-2000® XB connectors in laboratory environment