

CONEXIO *jump* LC duplex



SCOPE OF SUPPLY

CONEXIO *jump*, one side assembled HEC-BR with LC duplex, other side assembled with LC duplex discrete.

Cable ø 5.6mm.

Packed in plastic bag with label for identification.

GENERAL DESCRIPTION

CONEXIO *jump* cables are specialized assemblies used for FTTA connections and other applications that present environmental challenges. These cables are designed to conform to Telcordia standards GR-3120 and IEC 61753-1. They are primarily used for Fiber to the Antenna connections.

FEATURES

- Designed for outdoor applications
- LSZH outdoor rated cable jacket containing water-blocking aramid yarn
- Cable ø 5.6mm
- Operating temperature -40 °C to 75 °C
- Lowest insertion loss
- HEC-BR to LC discrete
- Furcation tubes with strength member
- Factory tested and performance certified
- IEC 61753-1 Category E compliant
- Telcordia GR 3120 compliant
- UL-V0 compliant material

| PRODUCT-NO | PRODUCT DESCRIPTION | PU |
|------------|-------------------------------|----|
| 900264 | CJ-HECBRLCdC2-LCdxxC2-56DA1-2 | 1 |
| 900265 | CJ-HECBRLCdC2-LCdxxC2-56DA1-5 | 1 |

STANDARDS

- GR-3120-CORE
- IEC 61753-1 Category E (extreme environment)

OPTICAL PERFORMANCE

| DESCRIPTION | GRADE Bm/3 | GRADE Am/2 | GRADE C/2 | GRADE C/1 |
|---|------------|------------|-----------|--------------------------|
| Insertion loss (IL) 95% IEC 61300-3-34 | ≤ 0.50dB* | ≤ 0.25dB* | ≤ 0.50dB* | ≤ 0.50dB* |
| Insertion loss (IL) typical value IEC 61300-3-34 | ≤ 0.25dB* | ≤ 0.15dB* | ≤ 0.35dB* | ≤ 0.35dB* |
| Return loss (RL) IEC 61300-3-6 | ≥ 35dB | ≥ 45dB | ≥ 45dB | ≥ 60dB ≥ 55dB unmated |

* Attenuation values for connector including mechanical splice. Random measurement against Grade Bm resp. Grade C connector.

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MECHANICAL DATA

Generic requirements for Hardened Fiber Optic Connectors (HFOCs) and Hardened Fiber Optic Adapters (HFOAs) GR-3120-CORE

| DESCRIPTION | VALUE / VALUE RANGE | STANDARD |
|--|---|-------------------------------|
| Mating durability | 500x minimum | IEC 61300-2-2 |
| Cable retention HEC | 450N (100lbf), ≥ 60s | GR-3120-CORE |
| Cable retention LC discrete | 70N, ≥ 60s | IEC 61300-2-4 |
| Side load (90° side pull): HEC | 70N (15lbf), ≥ 60s | GR-3120-CORE |
| Side load (90° side pull): LC discrete | 10N, ≥ 60s | IEC 61300-2-42 |
| Repeated bending | 100 cycles -90° / 0° / +90° / 0° load = 0.2N | IEC 61300-2-44 |
| Vibration | 10-55Hz, 1 octave / min. 3 axes of 15 cycles, 0.5h / axis amplitude 0.75 mm | IEC 61300-2-1 |
| Torsion | 45N (10lbf), ±90° and ±180°; 10 cycles | GR-3120-CORE IEC 61300-2-5 |
| Cable flex test HEC LC discrete | 8 cycles -90° / 0° / +90° / 0° load = 45N (10lbf) load = 4.5N (1lbf) | GR-3120-CORE |
| Drop | 1.5 m, 5 times | IEC 61300-2-12 |
| | 5m and 15 feet, 2 times each | GR-3120-CORE |
| Water resistance test: HEC | IP 68: 10feet (3m), 7d, 23°C | GR-3120-CORE |
| Water resistance test: LC discrete | IP20 / IP65 (mounted) | |

CLIMATICAL DATA

| DESCRIPTION | VALUE / VALUE RANGE | STANDARD |
|-----------------------|---|------------------------|
| Cold | -10°C, 96h | IEC 61300-2-17 |
| Dry heat | +60°C, 96h | IEC 61300-2-18 |
| Change of temperature | -40°C to +85°C, 12 cycles | IEC 61300-2-22 |
| | -40°C to +75°C, 21 cycles | GR-3120-CORE |
| | -40°C to +85°C, 100 cycles | MIL-STD-883, Meth 1010 |
| Humidity | -10°C to +65°C, 90 – 100%RH, 14 cycles/168h | |

LONG TERM ENDURANCE

| DESCRIPTION | VALUE / VALUE RANGE | STANDARD |
|-----------------|--|----------------------|
| Heat resistance | +70°C, 1000h | IEC 61300-2-18 |
| | +85°C, <40%RH, 168, 500, 1'000, 2'000 & 5'000h | GR-3120-CORE |
| Damp heat | +40°C at 93%RH, 96h | IEC 61300-2-19 |
| | +75°C at 95%RH, 2'000h | GR-3120-CORE |
| UV resistance | UVB: type 313, 2160h | ASTM G 154 (Cycle 3) |
| | | ISO 4982-2 |

FIRE PROPERTIES

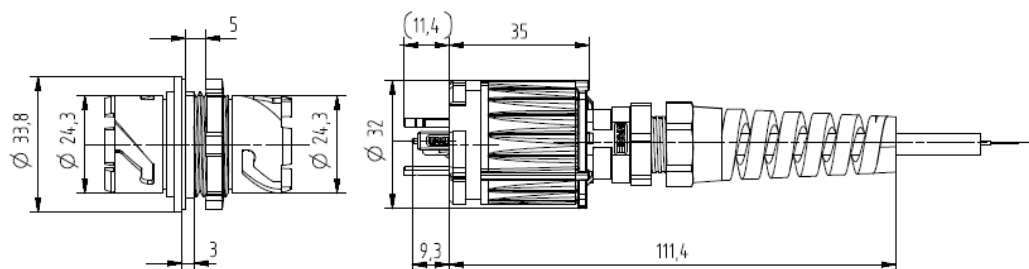
| DESCRIPTION | VALUE / VALUE RANGE | STANDARD |
|--------------------------|---------------------|----------|
| Halogen free, acid gases | Pass | |

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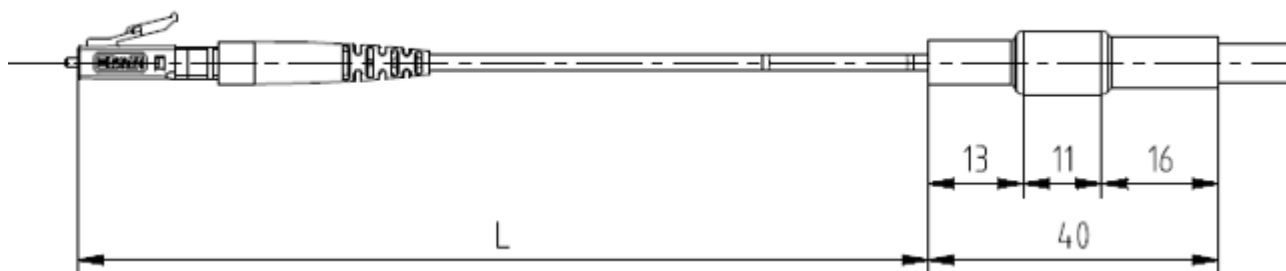
RoHS

Pass

TECHNICAL DRAWING HEC-BR LC duplex



TECHNICAL DRAWING LC discrete



TECHNICAL DRAWING CABLE

| | |
|------------------------|-----------------------|
| Diameter: | ø 5.6 ± 0.2mm |
| Strength member: | Aramid yarn |
| Water blocking member: | Water blocking yarn |
| Buffer: | LSZH (Red-1, Green-2) |
| Jacket | LSZH (Black) |
| Cable standard | IEC 60794-2 |

