Data Sheet

Brugg Temperature Cable (BRUsafety)

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## Brugg Strain Cable (BRUsens Strain V1)

## Description

|  |  |
| --- | --- |
| 1 | Two SM red and green optical fibres with 250 µm primary coating |
| 2 | Gel filled loose tube |
| 3 | Aramid yarns |
| 4 | LSZH (FRNC) outer sheath |

## Physical characteristics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cable construction | Number of fibres | Cable colour | Cable diameter  (mm) | Weight (kg/km) | Max. pulling tension (N)  IEC 60794-1-2 | | Min. bending radius (mm) | | Max. crush resistance (N/cm) |
| Short term | Long term | Short term | Long term |
| Loose tube | 2 | Red | 4 | 11 | 200 | 400 | 50(20x | 80(15x | 200 |

## Fibre characteristics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fibre type | Mode Field Diameter (µm) @ 1550nm | Refractive Index n @ 1550nm | Max. attenuation (dB/km)  @ 1550nm | Numerical aperture (-) |
| SMF  ITU-T G.652.D & G.657.A1&A2 | 9.4 – 10.4 µm | 1.467 | 0.5 |  |

## Brillouin parameters

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cε (Mhz/%) | CT (MHz/°C) | Central Brillouin frequency (GHz)  @ 1550nm @ 20 ºC |
| CSIC | NA |  |  |

Preferred supplier: Direct from manufacturer Brugg Cables Price: ~ £1.75 + VAT per meter