

Certificate of Product Approval

Certificate Number: 568h

Issue: 02

RAMCRO S.p.A.

Via Marzorati 15
20014 Nerviano
Milan
Italy



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

Product(s)

Cable Types as listed below:
FO Cables (Single & Multi Mode)

Standard(s) (see Appendix for details)

IEC 60331-25:1999
IEC 60332-1-2:2004+A11:2016
EN 61034-2:2005+A2:2020
EN 60754-1:2014
IEC 60332-3-24:2009

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for LPCB

Obada Piracha
Senior Certification Manager

31 October 2024
Date of Issue

26 July 2017
Date of First issue



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Appendix to Certificate No: 568h RAMCRO S.p.A.

Issue: 02

| Product name | | | | | | | LPCB Ref. No. |
|-----------------------|------------------------|------------------------|--------------|----------------|---------------|------------|---------------|
| FO Single Mode Cables | | | | | | | 568h/01 |
| Total No. of FO | No. of FO in each tube | No. of Tube/Fillers | IEC 60331-25 | IEC 60332-3-24 | IEC 60332-1-2 | EN 61034-2 | EN 60754-1 |
| 6 | 6 | 1 tube with 5 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 12 | 6 | 2 tubes with 4 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 24 | 6 | 4 tubes with 2 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 48 | 12 | 4 tubes with 2 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |

Notes:

1. The cables met the requirements of IEC 60331-25:1999 when tested at a temperature of 750°C for a duration of 90 minutes + 15 minutes cooling time.
2. The cables met the change in attenuation requirements of ≤1dB/fibre when tested in accordance with IEC 60331-25.

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Appendix to Certificate No: 568h RAMCRO S.p.A.

Issue: 02

| Product name | | | | | | | LPCB Ref. No. |
|----------------------|------------------------|------------------------|--------------|----------------|---------------|------------|---------------|
| FO Multi Mode Cables | | | | | | | 568h/02 |
| Total No. of FO | No. of FO in each tube | No. of Tube/Fillers | IEC 60331-25 | IEC 60332-3-24 | IEC 60332-1-2 | EN 61034-2 | EN 60754-1 |
| 6 | 6 | 1 tube with 5 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 12 | 6 | 2 tubes with 4 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 24 | 6 | 4 tubes with 2 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |
| 48 | 12 | 4 tubes with 2 fillers | Complies | Complies | Complies | >60% | <0.5% HCl |

Notes:

1. The cables met the requirements of IEC 60331-25:1999 when tested at a temperature of 750°C for a duration of 90 minutes + 15 minutes cooling time.
2. The cables met the change in attenuation requirements of ≤2dB/fibre when tested in accordance with IEC 60331-25.

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