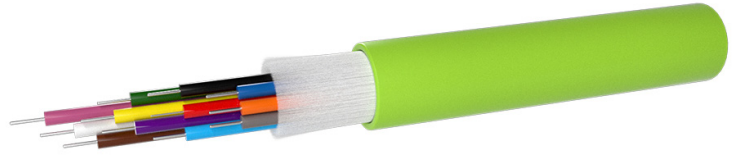




## TIGHT BUFFER - DISTRIBUTION CABLE OR MINI BREAKOUT GLASS YARN DIELECTRIC ARMOURING

### DESCRIPTION

- The barpa Distribution Cables are perfect for building backbones and horizontal distribution applications;
- To use in structured cabling installations: data centers, LANs, SANs and longer length backbones;
- Easy strippable tight buffer;
- For indoor and/or outdoor.



### STANDARDS

- ISO/IEC 11801; • EN 50173-1; • EN50575; • IEC 60794-2-20;
- IEC 60332-1-2; • IEC 60332-3-24; • IEC 61034-[1,2];
- EN 50399; • ANSI/TIA-568-C; • ITU G652; • ITU G657;
- IEC 60793-2-50; • IEC 60793-2-10; • IEC 60794-1-21;
- IEC 60794-1-22.



- 1 Outer Jacket
- 2 Tight-buffered
- 3 Strength Member



### CABLE PROPERTIES

|                              |       |   |                                    |
|------------------------------|-------|---|------------------------------------|
| Coating Fiber                | Color | 1 - red   | 1 - red with mark every 70mm       |
|                              |       | 2 - green   | 2 - green with mark every 70mm     |
|                              |       | 3 - blue  | 3 - blue with mark every 70mm      |
|                              |       | 4 - yellow  | 4 - yellow with mark every 70mm    |
|                              |       | 5 - white   | 5 - white with mark every 70mm     |
|                              |       | 6 - grey  | 6 - grey with mark every 70mm      |
|                              |       | 7 - brown   | 7 - brown with mark every 70mm     |
|                              |       | 8 - violet  | 8 - violet with mark every 70mm    |
|                              |       | 9 - turquoise   | 9 - turquoise with mark every 70mm |
|                              |       | 10 - black  | 10 - black with mark every 35mm    |
|                              |       | 11 - orange   | 11 - orange with mark every 70mm   |
|                              |       | 12 - pink   | 12 - pink with mark every 70mm     |
| Water blocking (Only in Dca) |       | Swealable tape  |                                    |
| Strength member              |       | Material<br>Glass Yarns as strength members and rodent protection   |                                    |
| Sheath                       |       | Material<br>Halogen free, flame retardant, UV stabilised  |                                    |
|                              |       | Cor<br>OM2 - orange; OM3 - aqua; OM4 - purple; OM5 - lime green OS2 - yellow.   |                                    |
|                              |       | Marking<br>(code) barpa FO Distribution w Glass (CPR class) (fiber type) (No of fibers)F (batch no.) Made in EU (meters)m |                                    |
| VDE 888                      |       | U-VQ(ZN)H   |                                    |



TIGHT BUFFER - DISTRIBUTION CABLE OR MINI BREAKOUT  
GLASS YARN DIELECTRIC ARMOURING

**MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS**

|  |        | Nº. Fibers           |      |      |      |      | Method            |
|--|--------|----------------------|------|------|------|------|-------------------|
|  |        | 2                    | 4    | 8    | 12   | 24   | IEC 60794-1-21/22 |
| <b>Dca Limits</b>                            |        |                      |      |      |      |      |                   |
| Tensile Strength (Long Term)                 | N      | 160                  | 220  | 340  | 450  | 700  | E1                |
| Tensile Strength (Short Term - Installation) | N      | 325                  | 440  | 680  | 900  | 1400 | E1                |
| Impact                                       | J      | 10                   | 10   | 10   | 10   | 10   | E4                |
| Torsion                                      |        | 5 cycles ± 1 turn    |      |      |      |      | E7                |
| Crush  | N/10cm | 2000                 | 2000 | 2000 | 2000 | 2000 | E3                |
| Min. Bend radius (permanent - unloaded)      | mm     | 50                   | 50   | 50   | 50   | 60   | E11               |
| Installation Temperature                     | °C     | -20 to +60           |      |      |      |      | F1                |
| Operation Temperature                        | °C     | -40 to +70           |      |      |      |      | F1                |
| Storage Temperature                          | °C     | -40 to +70           |      |      |      |      | F1                |
| Water Penetration                            |        | No water on free end |      |      |      |      | F5C               |
| Cable Diameter                               | mm     | 4,6                  | 5,2  | 6    | 7    | 8,5  | -                 |
| Nominal Cable Weight                         | kg/km  | 19                   | 27   | 36   | 48   | 73   | -                 |
| <b>Cca Limits</b>                            |        |                      |      |      |      |      |                   |
| Tensile Strength (Long Term)                 | N      | 280                  | 280  | 280  | 340  | 400  | E1                |
| Tensile Strength (Short Term - Installation) | N      | 560                  | 560  | 560  | 680  | 800  | E1                |
| Impact                                       | J      | 20                   | 20   | 20   | 20   | 20   | E4                |
| Torsion                                      |        | 5 cycles ± 1 turn    |      |      |      |      | E7                |
| Crush  | N/10cm | 3000                 | 3000 | 3000 | 3000 | 3000 | E3                |
| Min. Bend radius (permanent - unloaded)      | mm     | 53                   | 57   | 68   | 78   | 86   | E11               |
| Installation Temperature                     | °C     | -20 to +70           |      |      |      |      | F1                |
| Operation Temperature                        | °C     | -20 to +70           |      |      |      |      | F1                |
| Storage Temperature                          | °C     | -40 to +70           |      |      |      |      | F1                |
| Water Penetration                            |        | No water on free end |      |      |      |      | F5C               |
| Cable Diameter                               | mm     | 5,3                  | 5,7  | 6,8  | 7,2  | 8,6  | -                 |
| Nominal Cable Weight                         | kg/km  | 35                   | 35   | 35   | 80   | 80   | -                 |
| <b>B2ca Limits</b>                           |        |                      |      |      |      |      |                   |
| Tensile Strength (Long Term)                 | N      | 500                  | 500  | 500  | 500  | 800  | E1                |
| Tensile Strength (Short Term - Installation) | N      | 1500                 | 1500 | 1500 | 1500 | 2400 | E1                |
| Impact                                       | J      | 10                   | 10   | 10   | 10   | 10   | E4                |
| Torsion                                      |        | 5 cycles ± 1 turn    |      |      |      |      | E7                |
| Crush  | N/10cm | 1000                 | 1000 | 1000 | 1000 | 1000 | E3                |
| Min. Bend radius (permanent - unloaded)      | mm     | 60                   | 60   | 66   | 82   | 95   | E11               |
| Installation Temperature                     | °C     | -20 to +60           |      |      |      |      | F1                |
| Operation Temperature                        | °C     | -20 to +60           |      |      |      |      | F1                |
| Storage Temperature                          | °C     | -30 to +60           |      |      |      |      | F1                |
| Water Penetration                            |        | No water on free end |      |      |      |      | F5C               |
| Cable Diameter                               | mm     | 6,0                  | 6,0  | 6,6  | 8,2  | 9,5  | -                 |
| Nominal Cable Weight                         | kg/km  | 43                   | 46   | 59   | 72   | 99   | -                 |

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## TIGHT BUFFER - DISTRIBUTION CABLE OR MINI BREAKOUT GLASS YARN DIELECTRIC ARMOURING

### ORDER INFORMATION

|            | Number of Fibers |             |             |             |             |
|------------|------------------|-------------|-------------|-------------|-------------|
|            | 2                | 4           | 8           | 12          | 24          |
| OM3        | 81114101502      | 81114101504 | 81114101508 | 81114101512 | 81114101524 |
| OM4        | 81115101602      | 81115101604 | 81115101608 | 81115101612 | 81115101624 |
| OS2 G652D  | 81112101102      | 81112101104 | 81112101108 | 81112101112 | 81112101124 |
| OS2 G657A2 | 81112101202      | 81112101204 | 81112101208 | 81112101212 | 81112101224 |
| OM5        | 81117301702      | 81117101704 | 81117301708 | 81117101712 | 81117301724 |



This product is developed and produced in Europe.



To order in Dca-s2, d2, a1 add to the code "D1" at the end of the code. To order in Cca add to the code "C1" at the end of the code.  
To order in B2ca,s1a-d1-a1 add to the code "B1" at the end.  
Without any CPR add to the code "S" at the end of the code. Available in different CPR class.  
Please specify in your request.



As part of our goal to achieve quality excellence, our barpa System Warranty can give you 25 years products and solution assurance of compliance with the industry performance standard comparing with the class installed. This warranty applies to network infrastructure installations that was made by an approved barpa Partner using an barpa solution (end-to-end). For more informations go to our website.

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**datasheet n° b40\_4 | date: 11/23**

approved by: Ana Barbosa