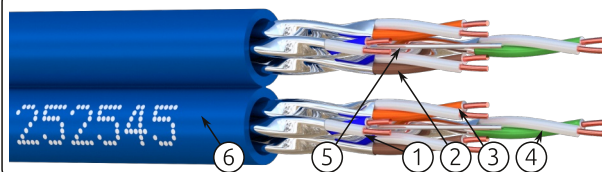
**elbaC Cable**

ZAC sous le Beer - RD 836  
F-27730 BUEIL (Eure - France)  
Tél : +33 (0)2 32 62 00 92  
Fax : +33 (0)2 76 01 31 80  
www.elbac.fr / info@elbac.fr

**Construction****Inner conductor** ①-④

|          |                  |
|----------|------------------|
| Material | Annealed copper  |
| Diameter | Ø 0.56 ± 0.01 mm |

**Insulation** ①-④

|          |                     |
|----------|---------------------|
| Material | Skin/Foam/Skin HDPE |
| Diameter | Ø 1.33 ± 0.10 mm    |

**Screening** ①-④

|          |                                 |
|----------|---------------------------------|
| Material | Alu/PET per pair (Alu side out) |
|----------|---------------------------------|

**Assembly**

## 4 shielded twister pairs

|   |  |                |
|---|--|----------------|
| ① |  | Blue / white   |
| ② |  | Brown / white  |
| ③ |  | Orange / white |
| ④ |  | Green / white  |

**Drain wire** ⑤

|          |                               |
|----------|-------------------------------|
| Material | Tinned copper Ø 0.4 ± 0.01 mm |
|----------|-------------------------------|

**Sheath** ⑥

|           |                    |
|-----------|--------------------|
| Material  | LSZH Blue RAL 5005 |
| Thickness | ≥ 0.5 mm           |
| Diameter  | Ø 7.2 ± 0.2 mm     |

**Weight**

|             |            |
|-------------|------------|
| Linear mass | 46.1 kg/km |
|-------------|------------|

**Marking of sheath**

|  |   |
|--|---|
| Printing<br>with<br>XXX : Quantity in meter still<br>available per reel<br>DDDDD : Date code | 2 × U/FTP CAT6A 650MHz - 4<br>PAIRS AWG23 - ISO 11801 -<br>TIA/EIA 568B - <b>CE</b> - elbaC<br>252545 - DDDDD - XXX m |
|--|---|

|                 |                             |
|-----------------|-----------------------------|
| Color / Process | White pigment ink / Ink jet |
|-----------------|-----------------------------|

|      |     |
|------|-----|
| Step | 1 m |
|------|-----|

**Meet Standards**

|                    |                               |
|--------------------|-------------------------------|
| Electrical :       | EIA/TIA 568A<br>ISO/IEC 11801 |
| Fire performance : | IEC 60332-1                   |
| Smoke density :    | IEC 61034                     |
| Halogen free :     | IEC 60754                     |
| Environment :      | European directive 2011/65/EU |

**Electrical characteristics**

|           |               |            |
|-----------|---------------|------------|
| Impedance | 1 - 100MHz    | 100 ± 15 Ω |
|           | 100- 250 MHz  | 100 ± 20 Ω |
|           | 250 - 650 MHz | 100 ± 25 Ω |

|                      |     |
|----------------------|-----|
| Propagation velocity | 76% |
|----------------------|-----|

|                         |           |
|-------------------------|-----------|
| Mutual pair capacitance | ≤ 42 pF/m |
|-------------------------|-----------|

|                                   |              |
|-----------------------------------|--------------|
| Capacitance unbalance pair/ground | ≤ 1500 pF/km |
|-----------------------------------|--------------|

|                         |             |
|-------------------------|-------------|
| Conductor DC resistance | < 79.8 Ω/km |
|-------------------------|-------------|

|                              |        |
|------------------------------|--------|
| Pair resistance unbalance DC | < 1.5% |
|------------------------------|--------|

|                     |                |
|---------------------|----------------|
| Dielectric strength | 2.5 kV DC (2s) |
|---------------------|----------------|

|                              |              |
|------------------------------|--------------|
| Insulation resistance (500V) | > 5000 MΩ.km |
|------------------------------|--------------|

|                |      |
|----------------|------|
| Voltage rating | 30 V |
|----------------|------|

**Performances**

| Frequency<br>MHz | Max attenuation<br>dB/100m | NEXT<br>dB | RL<br>dB |
|------------------|----------------------------|------------|----------|
| 1.0              | 2.1                        | 75.3       | 20.0     |
| 4.0              | 3.8                        | 66.3       | 23.0     |
| 10.0             | 5.9                        | 60.3       | 25.0     |
| 16.0             | 7.5                        | 57.2       | 25.0     |
| 31.25            | 10.5                       | 52.9       | 23.6     |
| 62.5             | 15.0                       | 48.4       | 21.5     |
| 100.0            | 19.1                       | 45.3       | 20.1     |
| 250.0            | 31.8                       | 39.3       | 17.3     |
| 500.0            | 45.3                       | 34.8       | 17.3     |
| 650.0            | 52.3                       | 31.1       | 17.3     |

| Frequency<br>MHz | PS NEXT<br>dB | ELFEXT<br>dB | PS ELFEXT<br>dB |
|------------------|---------------|--------------|-----------------|
| 1.0              | 72.3          | 68.0         | 65.0            |
| 4.0              | 63.3          | 56.0         | 53.0            |
| 10.0             | 57.3          | 48.0         | 45.0            |
| 16.0             | 54.2          | 43.9         | 40.9            |
| 31.25            | 49.9          | 38.1         | 35.1            |
| 62.5             | 45.4          | 32.1         | 29.1            |
| 100.0            | 42.3          | 28.0         | 25.0            |
| 250.0            | 36.3          | 20.0         | 27.0            |
| 500.0            | 31.8          | 14.0         | 11.0            |
| 650.0            | 30.1          | 11.7         | 8.7             |

**Thermal characteristics**

|                                    |            |
|------------------------------------|------------|
| Storage / Transport / Installation | 0 / 50°C   |
| Operation                          | -20 / 60°C |

**Mechanical characteristics**

|                                      |       |
|--------------------------------------|-------|
| Maximum pulling tension              | 100 N |
| Bending radius - installed           | 50 mm |
| Bending radius - during installation | 60 mm |

**Packaging**

- W5 : 500m / Wooden drum