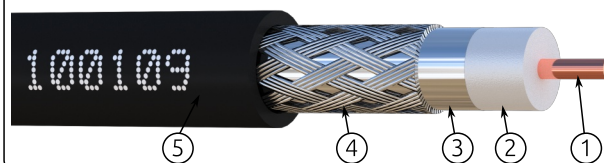
**elbaC Cable**

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

| | |
|----------|--------------------------------|
| Material | Annealed copper |
| Diameter | $\varnothing 1.68 \pm 0.02$ mm |

Dielectric ②

| | |
|----------|--------------------------------|
| Material | Cellular PE Physical |
| Color | Natural |
| Diameter | $\varnothing 7.00 \pm 0.25$ mm |

Outer conductor**1st Layer** ③

| | |
|----------|------------------------|
| Material | Alu/Polyester Tape/Alu |
| Coverage | $\geq 115\%$ |

2nd Layer ④

| | |
|----------|----------------------------------|
| Material | Aluminum alloy |
| Braiding | 16 × (6 × $\varnothing 0.16$ mm) |
| Coverage | 60% |

Sheath ⑤

| | |
|----------|-------------------------------|
| Material | PE Black |
| Diameter | $\varnothing 10.3 \pm 0.2$ mm |

Weight

| | |
|-------------|----------|
| Linear mass | 77 kg/km |
|-------------|----------|

Marking of sheath

| | |
|--|---|
| Printing with XXX: Quantity in meter still available per reel DDDDD: Date code | EN 50117-6 - 11PATc 1.7/6.9 Class A 3GHz - elbaC 100109 - DDDDD - XXX m |
|--|---|

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

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

Stripping force / 50 mm (F)

| | |
|------------|---|
| Dielectric | $25 \text{ N} \leq F \leq 50 \text{ N}$ |
|------------|---|

Meet Standards

| | |
|-----------------|---------------------------------------|
| Coaxial : | EN 50017-6 |
| Environment : | European directive 2011/65/EU |
| Marking : | CE |
| Fire reaction : | EN 50575:2014/A1:2016 F _{ca} |

Electrical characteristics

| | |
|-----------|-----------------------------|
| Impedance | $75 \pm 3 \Omega/\text{km}$ |
|-----------|-----------------------------|

| | |
|-------------|---------------------|
| Capacitance | $< 50 \text{ pF/m}$ |
|-------------|---------------------|

Max DC Resistance

| | |
|-----------------|---------------------------|
| Inner conductor | $0.80 \Omega/100\text{m}$ |
|-----------------|---------------------------|

| | |
|-----------------|--------------------------|
| Outer conductor | $2.8 \Omega/100\text{m}$ |
|-----------------|--------------------------|

| | |
|----------------------|-----|
| Propagation velocity | 84% |
|----------------------|-----|

| | |
|---------------|------|
| Rated voltage | 30 V |
|---------------|------|

| | |
|-------------------------------|-----------------------------------|
| Insulation resistance at 20°C | $> 500 \text{ M}\Omega.\text{km}$ |
|-------------------------------|-----------------------------------|

Longitudinal attenuation

| Frequency MHz | Max attenuation dB/100m |
|------------------|----------------------------|
| 5.0 | 0.9 |
| 50.0 | 2.7 |
| 100.0 | 3.8 |
| 200.0 | 5.4 |
| 400.0 | 7.7 |
| 800.0 | 11.0 |
| 862.0 | 11.5 |
| 950.0 | 12.1 |
| 1350.0 | 14.6 |
| 1750.0 | 16.7 |
| 2150.0 | 18.7 |
| 3000.0 | 22.3 |

Return loss

| Frequency MHz | Return loss dB |
|------------------|-------------------|
| [5 - 30] | > 23 |
| [30 - 470] | > 23 |
| [470 - 862] | > 20 |
| [862 - 1000] | > 18 |

Screening attenuation

| | |
|-------|---|
| Class | A |
|-------|---|

| | |
|------------------------|----------------------|
| Attenuation 5-1000 MHz | $\geq 85 \text{ dB}$ |
|------------------------|----------------------|

Thermal characteristics

| | |
|-------------------------|-----------------|
| CPR fire reaction class | F _{ca} |
|-------------------------|-----------------|

| | |
|-------------------|------|
| Rated temperature | 80°C |
|-------------------|------|

Packaging

| | |
|--------|--------------------|
| - W5 : | 500m / Wooden drum |
|--------|--------------------|

Notes

| |
|--|
| |
|--|