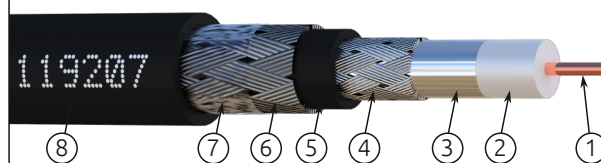
**elbaC Cable**

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**Construction**

| Inner conductor ①                                                                            |                                                                              |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Material                                                                                     | Annealed copper                                                              |
| Diameter                                                                                     | $\varnothing 1.1 \pm 0.005$ mm                                               |
| Dielectric ②                                                                                 |                                                                              |
| Material                                                                                     | Cellular PE Physical                                                         |
| Color                                                                                        | Natural                                                                      |
| Diameter                                                                                     | $\varnothing 4.9 \pm 0.10$ mm                                                |
| Outer conductor                                                                              |                                                                              |
| 1 <sup>st</sup> Layer ③                                                                      |                                                                              |
| Material                                                                                     | Thick tape<br>Alu 20µm/Polyester 15µm/Alu 20µm                               |
| Coverage                                                                                     | $\geq 125\%$                                                                 |
| 2 <sup>nd</sup> Layer ④                                                                      |                                                                              |
| Material                                                                                     | Tinned copper clad aluminum                                                  |
| Braiding                                                                                     | $16 \times (8 \times \varnothing 0.12 \text{ mm})$                           |
| Coverage                                                                                     | 78%                                                                          |
| Inner sheath ⑤                                                                               |                                                                              |
| Material                                                                                     | PE Black                                                                     |
| Color                                                                                        | RAL 9005                                                                     |
| Diameter                                                                                     | $\varnothing 6.95 \pm 0.15$ mm                                               |
| Armouring                                                                                    |                                                                              |
| Material                                                                                     | Galvanized steel ⑥                                                           |
| Braid                                                                                        | $24 \times (6 \times \varnothing 0.20 \text{ mm})$                           |
| Coverage                                                                                     | $> 95\%$                                                                     |
| Water repellent                                                                              | Jelly filled ⑦                                                               |
| Outer sheath ⑧                                                                               |                                                                              |
| Material                                                                                     | PE for outdoor UV resistant                                                  |
| Color                                                                                        | Black - RAL 9005                                                             |
| Diameter                                                                                     | $\varnothing 10.0 \pm 0.30$ mm                                               |
| Weight                                                                                       |                                                                              |
| Linear mass                                                                                  | 130 kg/km                                                                    |
| Marking of sheath                                                                            |                                                                              |
| Printing<br>with<br>XXX : Quantity in meter still<br>available per reel<br>DDDDD : Date code | « iDEFINITION 100 - 75 OHMS -<br>SWB - PE - elbaC 119207 - DDDDD<br>- XXXm » |
| Color / Process                                                                              | White / Ink jet                                                              |
| Step                                                                                         | 1m                                                                           |
| Stripping force / 50 mm (F)                                                                  |                                                                              |
| Dielectric                                                                                   | $15 \text{ N} \leq F \leq 35 \text{ N}$                                      |

**Meet Standards**

European directive 2011/65/EU

**Electrical characteristics**

| Impedance                    | $75 \pm 2 \Omega$                       |
|------------------------------|-----------------------------------------|
| Capacitance                  | $< 58 \text{ pF/m}$                     |
| Max DC resistances (20°C)    |                                         |
| Inner conductor              | 21.1 $\Omega/\text{km}$                 |
| Outer conductor              | 21 $\Omega/\text{km}$                   |
| Propagation velocity         | 84%                                     |
| Rated voltage                | 30V                                     |
| Insulation resistance (20°C) | $> 500 \text{ M}\Omega \cdot \text{km}$ |
| Longitudinal attenuation     |                                         |

| Frequency<br>MHz | Max attenuation<br>dB/100m |
|------------------|----------------------------|
| 5                | 1.5                        |
| 50               | 4.6                        |
| 100              | 6.5                        |
| 200              | 9.2                        |
| 400              | 13.0                       |
| 800              | 18.7                       |
| 1000             | 21.5                       |
| 1350             | 25.1                       |
| 2150             | 32.1                       |
| 3000             | 39.1                       |

**Return loss**

| Frequency<br>MHz | Return loss<br>dB/100m |
|------------------|------------------------|
| [ 5 - 1000 ]     | $> 23$                 |

**Screening attenuation**

|                          |                   |
|--------------------------|-------------------|
| Attenuation 30-1000 MHz  | $> 80 \text{ dB}$ |
| Attenuation 1000-3000MHz | $> 85 \text{ dB}$ |

**Thermal characteristics**

|                             |                 |
|-----------------------------|-----------------|
| CPR fire reaction Euroclass | F <sub>ca</sub> |
| Rated temperature           | 70°C            |

**Packaging**

|      |                      |
|------|----------------------|
| - W1 | : 100m / Wooden Drum |
| - W5 | : 500m / Wooden Drum |

**Notes**

Outdoor (rain/UV) resistant



Rodent resistant