

**elbaC Cable**

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**Construction**

Inner conductor ①	
Material	Annealed copper
Diameter	$\varnothing 0.61 \pm 0.005$ mm
Dielectric ②	
Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 2.70 \pm 0.10$ mm
Outer conductor	
1st Layer ③	
Material	Thick tape bonded to dielectric Alu 20 μ m/Polyster 15 μ m/Alu 20 μ m
Coverage	$\geq 125\%$
Diameter	$\varnothing 2.90 \pm 0.10$ mm
2nd Layer ④	
Material	Tinned copper clad aluminum
Braiding	16 \times (6 \times $\varnothing 0.12$ mm)
Coverage	90%
Sheath ⑤	
Material	PVC - Flam retardant C2
Color	Blue - RAL 5022
Diameter	$\varnothing 4.50 \pm 0.10$ mm
Weight	
Linear mass	28 kg/km
Marking of sheath	
Printing	« iDEFINITION 61 - HD SDI - 75 with XXX : Quantity in meter still available per reel DDDDD : Date code DDDDD - XXXm »
Color / Process	White / Ink jet
Step	1m
Stripping force / 50 mm (F)	
Dielectric	15 N \leq F \leq 35 N

Meet Standards

European directive 2011/65/EU

Electrical characteristics

Impedance	$75 \pm 2 \Omega/\text{km}$
Capacitance	$< 58 \text{ pF/m}$
Max DC Resistance at 20°C	
Inner conductor	65 Ω/km
Outer conductor	17.2 Ω/km
Propagation velocity	81%
Rated voltage	30 V
Insulation resistance at 20°C	$> 500 \text{ M}\Omega/\text{km}$
Longitudinal attenuation	

Frequency MHz	Max attenuation dB/100m
5	2.4
30	5.4
100	10.5
300	17.9
500	23.1
1000	32.8
2250	49.8
3000	59.3

Return loss

Frequency MHz	Return loss dB
[30 - 1000]	> 23

Screening attenuation

Attenuation 30 - 2000 MHz	> 100 dB
Attenuation 2000 - 3000 MHz	> 100 dB

Thermal characteristics

Rated temperature	80°C
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Packaging

- C2 : 200m / Cardboard Reel
- R4 : 400m / Easy Reel Box
- W5 : 500m / Wooden Drum

Notes

Suitable connectors 953181 / 970181