

**Construction**

<b>Inner conductor</b> ①	
Material	Annealed copper
Diameter	$\varnothing 0.61 \pm 0.005$ mm
<b>Dielectric</b> ②	
Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 2.70 \pm 0.10$ mm
<b>Outer conductor</b>	
<b>1<sup>st</sup> Layer</b> ③	
Material	Thick tape bonded to dielectric Alu 20 $\mu$ m/Polyester 15 $\mu$ m/Alu 20 $\mu$ m
Coverage	$\geq 125\%$
Diameter	$\varnothing 2.90 \pm 0.10$ mm
<b>2<sup>nd</sup> Layer</b> ④	
Material	Tinned copper clad aluminum
Braiding	16 $\times$ (6 $\times$ $\varnothing 0.12$ mm)
Coverage	90%
<b>Sheath</b> ⑤	
Material	PVC - Flam retardant C2
Color	Blue - RAL 5022
Diameter	$\varnothing 4.50 \pm 0.10$ mm
<b>Weight</b>	
Linear mass	28 kg/km
<b>Marking of sheath</b>	
Printing with XXX : Quantity in meter still available per reel DDDDD : Date code	« iDEFINITION 61 - HD SDI - 75 OHMS - <b>CE</b> - elbaC 111181 - DDDDD - XXXm »
Color / Process	White / Ink jet
Step	1m
<b>Stripping force / 50 mm (F)</b>	
Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$

**Meet Standards**

Marking :	<b>CE</b>
Environment :	European directive 2011/65/EU
Fire reaction :	EN 50575:2014/A1:2016

**Notes**

Suitable connectors 953181 / 970181

**Electrical characteristics**

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

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	$> 100 \text{ dB}$
Attenuation 2000 - 3000 MHz	$> 100 \text{ dB}$

**Thermal characteristics**

CPR fire reaction Euroclass	E <sub>ca</sub>
Rated temperature	80°C

**Packaging**

- C2	: 200m / Cardboard Reel
- R4	: 400m / Easy Reel Box
- W5	: 500m / Wooden Drum
- WA	: 1000m / Wooden Drum