

**Construction****Inner conductor** ①

Material	Annealed copper
Diameter	$\varnothing 0.8 \pm 0.005$ mm

Dielectric ②

Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 3.65 \pm 0.10$ mm

Outer conductor**1st Layer** ③

Material	Thick Alu 40 μ m/Polyester/Alu tape
Coverage	$\geq 125\%$

2nd Layer ④

Material	Tinned copper clad aluminum
Braiding	16 \times (6 \times $\varnothing 0.12$ mm)
Coverage	78%

Sheath ⑤

Material	PVC - Flam retardant C2
Color	Blue - RAL 5017
Diameter	$\varnothing 6.10 \pm 0.15$ mm

Weight

Linear mass	35 kg/km
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Marking of sheath

Printing	iDEFINITION 80 - HD SDI - 75 with XXX: Quantity in meter still available per reel DDDDD: Date code
Color / Process	White / Ink jet

Stripping force / 50 mm (F)

Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$
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Meet Standards

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

Electrical characteristics

Impedance	$75 \pm 2 \Omega$
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Capacitance	< 58 pF/m
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Max DC Resistance at 20°C

Inner conductor	37 Ω /km
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Outer conductor	17.2 Ω /km
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Propagation velocity	81%
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Rated voltage	30 V
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Insulation resistance at 20°C	> 500 M Ω /km
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Longitudinal attenuation

Frequency MHz	Max attenuation dB/100m
5	1.8
30	5.6
100	7.9
300	13.9
400	16.1
1000	26.3
2150	39.7
3000	47.8

Return loss

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

Screening attenuation

Attenuation 30 - 2000 MHz	> 80 dB
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Attenuation 2000 - 3000 MHz	> 85 dB
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Thermal characteristics

CPR fire reaction class	E _{ca}
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Rated temperature	80°C
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Packaging

- C1	: 100m / Cardboard Reel
- R3	: 300m / Easy Reel Box
- W5	: 500m / Wooden Drum

Notes