

CABLE DESIGN SHEET

CABLE DESCRIPTION:

50 Ohm - Low Loss Coaxial Cable for Wireless Communication Systems - LSZH sheath

FIRE CLASS: Eca



CABLE CODE:

WL400ZHNLCA (Rev.2)

(CCA)	(PEE)	(Al/Pet/Al + Sur)	(CuSn)	(LSZH-FR)	
2,60	7,20	7,37	7,97	10,30	mm



A B C D E

CONSTRUCTION DATA:

DIMENSIONS:

A.	Inner conductor of Copper Cladded Aluminium	(CCA)	φ	2,60 ± 0,10	mm
B.	Dielectric of foam Polyethylene gas injected	(PEE)	φ	7,20 ± 0,15	mm
C.	Tape of Aluminium/Polyester/Aluminium + Surlyne longitudinally overlapped and bonded to dielectric.	(Al/Pet/Al + Sur)		27 x 12/15/12 + 25	mm x μm
D.	Braid of tinned copper wires . Lay of braid . Coverage (IEC 96-1) .	(CuSn)		24 x 7 x 0,15 52 82	mm mm %
E.	Outer sheath of thermoplastic material, halogen free, low smoke, flame retardant, UV resistant, printed by yellow ink-jet:	(LSZH-FR)	φ	10,30 ± 0,20	mm

TBD+metrica (gggaan=batch)

Weight of copper conductors :	29,0	Kg/Km
Total weight of cable (approx.) :	118,5	Kg/Km
Bending radius (operation/installation):	100 / 50	mm

ELECTRICAL DATA:

Characteristic Impedance :	50 ± 2	Ohm	Sheath Insulation Voltage:	8	kV
Capacitance :	82	pF/m	Screening Attenuation:	> 90	dB
Inner conductor resistance :	5,50	Ohm/Km			
Outer conductor resistance :	5,80	Ohm/Km			

Frequency (MHz)	Nom. Attenuation (dB)	Frequency (MHz)	Nom. Attenuation (dB)
50	2,9	1500	17,1
150	4,9	1800	19,0
220	6,0	2000	20,0
450	8,8	2500	22,0
900	12,8	4800	35,0

Frequency (MHz)	SRL (dB)
5 - 470	30
470 - 1000	28
1000 - 2000	26
2000 - 3000	22
/	/

STANDARDS:

EN 50575; IEC 60332-1-2

ITALIANA CONDUTTORI s.r.l

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Date

03 Apr 2024

Responsible

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