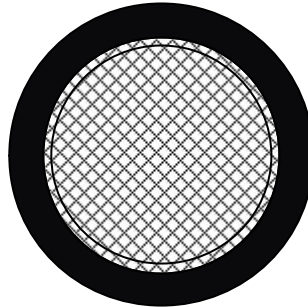


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Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

## Coaxial Cable 50Ω FRNC



### Design

Inner conductor: copper-clad aluminium wire ø 2.75 mm  
 Insulation of foamed Polyethylene (PE) with skin ø 7.2 mm  
 Bonded aluminium foil overlapped, applied longitudinally  
 Shield braiding of tinned copper wires ø 8.0 mm  
 Coverage about 80%

Jacket:  
 Thermoplastic copolymer (FRNC) BK ø (10.2 ±0.2) mm  
 Wall thickness about 1.1 mm

Printing: LEONI L \* 02YS(ST)CH 2.75/7.2-50 ALCU FRNC  
 + marking every meter  
 Text intervals about 500 mm

### Electrical data

Conductor resistance	≤	5	Ohm/km
Screen resistance	≤	7	Ohm/km
Insulation resistance	≥	10	GOhm*km
Capacitance 800 Hz	≈	77	nF/km
Characteristic impedance		(50 ±2)	Ohm
Test voltage (rms 50Hz 1min)	=	2000	V
Return loss ( 30 – 1500 MHz)	≥	23	dB
(1500 – 2700 MHz)	≥	16	dB
3 peaks up to -3 dB from the nominal value are permissible			
Screening efficiency 30 –2000 MHz acc. to IEC 46A/269/CD	≥	100	dB
rel. velocity of propagation		85	%
max. attenuation increase 1 GHz	≤	1.5	dB/100m
after climate test acc. to IEC 68-2-3, 21 days			

Number: PLU030069

Up-dating : 02.03.2006 Name: Langemeyer  
 Supersedes : 06.05.2004 which is to be intended with drawn

Page 1 / 2

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Frequency (MHz)	50	100	200	500	1000	1500	2000	2400	3000
Attenuation typ. (dB/100m) (dB/100ft)	2,8 (0,9)	4,1 (1,2)	5,7 (1,7)	9,5 (2,9)	14 (4,3)	18 (5,5)	21 (6,4)	24 (7,3)	28 (8,5)
Mean. power (kW)	2.7	1.9	1.3	0.8	0.6	0.45	0.4	0.35	0.3

**Mechanical and thermal characteristics**

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

**Other characteristics:**

Flame test acc. to IEC 60332-1

Flame test acc. to IEC 60332-3-24 (Category C)

Smoke-density acc. to IEC 61034

Halogen free acc. IEC 60754-1

No corrosive burn gas

UV-Resistant

Permissible temperature range : - 40°C up to + 80°C

Min. bending radius allowed : repeated 8,5X  $\varnothing$ , single 5X  $\varnothing$ 

Weight about : 115 Kg/km

**Designation of order:****PLU030069**

202345

02YS(ST)CH 2.75/7.2-50 ALCU FRNC

500 m on non-returnable reel