

# Coaxial cables for *high* temperatures

## Structure:

Conductor:  
Silver-platted copper wire  
7 x 0.1 mm

Insulation:  
TEFLON® FEP  
DYNEON® FEP

Scree  
Silver-platted copper wire

Sheath:  
TEFLON® FEP  
DYNEON® FEP

## Characteristics:

Working temperature:  
PFA: -55....+200°C  
Flame retardant  
Characteristic impedance (200 MHz):  
50±3 Ω, 75±3 Ω, 95±3 Ω

## Applications:

High frequency transmissions, especially transmitters and receivers, computers, radio-TV transmissions.

Their mechanical, thermal and electronic properties make them suitable for high temperature applications.



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<i>Parameter</i>	<i>Unit</i>	<i>50 Ω coaxial cable</i>	<i>75 Ω coaxial cable</i>	<i>95 Ω coaxial cable</i>
Inner conductor	no x mm	7 x 0,10	7 x 0,10	7 x 0,10
Radial thickness insulation	mm	0,2	0,65	1,15
Diameter over insulation	mm	max. 0,95	max. 1,6	max. 2,6
Concentricity	%	min. 85	min. 85	min. 85
Wire's diameter of screen	mm	0,10	0,10	0,10
Coating degree	%	min. 85	min. 85	min. 85
Sheath's radial thickness	mm	min. 0,2	min. 0,2	min. 0,2
Outside diameter	mm	max. 2	max. 2,6	max. 3,6
Electrical capacity	pF/m	max. 95	max. 70	max. 50
Maximum attenuation at :	dB/m			
10 MHz		-	0,18	0,1
100 MHz		0,48	-	-
200 MHz		0,65	0,47	0,35
400 MHz		-	0,65	0,5
500 MHz		1,27	-	-
1000 MHz		1,70	-	-
3000 MHz		-	1,92	1,5

Symbol cf. S.F. 437-97: TCCE<sub>3</sub> 7 x 0,1 - 50  
S.F. 438-97: TCCE<sub>3</sub> 7 x 0,1 - 75  
S.F. 438-97: TCCE<sub>3</sub> 7 x 0,1 - 95

where :

T - telecommunication  
CC - coaxial cable  
E<sub>3</sub> - PFA insulation and sheath