

# 300 Low Loss Flexible Communication Coax - 75 Ohm LSZH FireFighter®

## Cable Design

<b>Inner Conductor</b>	Plain copper wire	Ø 1,15 mm
<b>Dielectric</b>	Foam polyethylene (PE)	Ø 5,10 ± 0,10 mm
<b>Shield</b>	Aluminium/Polyester/Aluminium tape	Ø 5,20 ± 0,10 mm
Coverage	100 %	
<b>Braid</b>	Tinned copper wire braid	Ø 5,60 ± 0,10 mm
Coverage	90 %	
<b>Outer Jacket</b>	LSZH FireFighter® UV-resistant	Ø 6,80 ± 0,10 mm



## Mechanical and Thermal Characteristics

Operating Temperature	-25° C up to +80° C
Weight	55,4 kg/km
Min. Bending Radius	single 5 x Ø, repeated 10 x Ø
Fire Behaviour	IEC 60332-1, IEC 60332-3-24, IEC 60754, IEC 61034

## Electrical Data

Impedance	75±3	Ohm
Capacitance	53	pF/m
Velocity Ratio	84	%
Inner Conductor Resistance	16,6	Ohm/km
Braid Resistance	9,5	Ohm/km
Tension Sheath Sparking Test	3,0	kV

## Attenuation

Frequency (MHz)	dB/100m	Frequency (MHz)	dB/100m	Frequency (MHz)	dB/100m
5	1,1	470	12,5	1500	24,3
10	1,6	600	14,5	1750	26,2
50	3,9	800	16,8	2150	29,5
100	5,6	862	17,4	2400	31,6
200	8,1	1000	19,1	2750	34,2
300	9,8	1350	22,6	3000	36,2

## Structural Return Loss

Frequency (MHz)	dB
30 - 470	> 33
470 - 862	> 31
862 - 2150	> 25
2150 - 3000	> 23

## Transfer Impedance

Frequency (MHz)	
5 - 30	< 5 mOhm/m
30 - 1000	> 90 dB
1000 - 2000	> 80 dB
2000 - 3000	> 70 dB

## Specification

Part Number	Type
300754	LSZH FireFighter®