



M5361Z

HPL 50-1/4XF - Fire resistant LSOH Jacket

GENERAL CHARACTERISTICS

Inner Conductor:	Copper - clad Aluminium Diameter:	1.75 mm
Dielectric:	Foam Polyethylene Diameter:	4.8 mm
Outer Conductor:	Alu / polyester / Alu tape Tinned copper braid Diameter:	5.6 mm
Jacket:	Low smoke Zero Halogen Compound Diameter:	6.85 mm

Ink marking: ACOME HYPERCELL COAX LSOH HPL 50-1/4XF EXTRA FLEXIBLE M5361 LOT X lot N° (+ Metric length)

MECHANICAL

Bending radius:

- Operating : 45 mm - Min
- Installation : 20 mm - Min

Inst. / Op. Tensile Strength: 600 / 400 N - Max

Weight: 57 kg/km

Packaging: 500 m

ENVIRONMENTAL

Temperature range:	Operating	-40°C / +85°C
	Installation	-20°C / +60°C
	Storage	-70°C / +85°C
Fire resistance:	IEC 60332-1	
Smoke toxicity:	IEC 60754-2 / NFC20-454	
Smoke density:	IEC 61034	
Test methods:	IEC 60096-0-1, 61196-1, 60966-1	

ELECTRICAL

Impedance : $50 \pm 1.5 \Omega$

Return loss (jumper L =1m) :

- 30 ~ 1000 MHz ≤ -26.5 dB
- 1000 ~ 2000 MHz ≤ -21 dB
- 2000 ~ 3500 MHz ≤ -18 dB

Capacitance: 79 pF/m

Velocity: 84%

Dielectric constant: 1.42

Screening effectiveness: > 85 dB

Operating frequency: ≤ 15 GHz

Peak power rating: 3.6 kW

Operating voltage: 0.6 kV RMS

Insulation Resistance: > 10000 M Ω .km

DC resistance:

- Inner conductor: $\leq 11.0 \Omega/\text{km}$
- Outer conductor: $\leq 10.5 \Omega/\text{km}$

Frequency (MHz)	Attenuation (dB/100m) @ 20°C Typical	Power kW @ 40°C-Ambient Temperature Inner conductor: 100°C
10	2.74	3.00
30	4.32	1.84
100	6.94	1.09
300	11.47	0.67
450	14.29	0.56
900	20.90	0.41
1000	21.83	0.38
1500	27.13	0.31
1800	29.60	0.28
2000	31.59	0.26
3000	39.40	0.22
3500	43.00	0.19