

M5332Z

HPL 50-1/4XF – High 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:	Black High Fire resistant Low smoke Zero Halogen Compound Diameter:	6.85 mm

Ink marking: ACOME HYPERCELL COAX LSOH HFR HPL 50-1/4XF EXTRA FLEXIBLE M5332 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:		56 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:	NFC 32070.2.2	
Smoke toxicity:	IEC 60754-2 / NFC20-454	
Smoke density:	IEC 61034	
Test methods:	IEC 60096-0-1, 61196-1, 60966-1	

ELECTRICAL

Impedance : 50 ± 1.5 Ω
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 MΩ.km
DC resistance:

Inner conductor: ≤ 11.0 Ω/km
Outer conductor: ≤ 10.5 Ω/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
2600	36.40	0.23
3000	39.40	0.22
3500	42.90	0.19
3800	44.89	0.17
5000	52.30	0.14
5700	56.35	0.12
6000	57.95	0.11