

M5333Z
HYPERCELL

HPL 50-3/8XF – High Fire Resistant LSOH Jacket

GENERAL CHARACTERISTICS

Inner Conductor:	Copper - clad Aluminium Diameter:	2.76 mm
Dielectric:	Foam Polyethylene Diameter:	7.3 mm
Outer Conductor:	Annealed copper tape Copper wire braid Diameter:	8.0 mm
Jacket:	Black high fire resistant low smoke zero halogen compound Diameter:	10.1 mm

Ink marking: ACOME HYPERCELL COAX LSOH HFR HPL 50-3/8XF EXTRA FLEXIBLE M5333 LOT X lot N° (+ Metric length)

MECHANICAL

Bending radius:	Operating	50 mm – Min
	Installation	25 mm – Min
Inst. / Op.Tensile Strength:		700 / 500 N – Max
Weight:		109 kg/km

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) :

- 1 ~ 1000 MHz ≤ -26.5 dB
- 1000 ~ 2000 MHz ≤ -21 dB
- 2000 ~ 3000 MHz ≤ -18 dB

Capacitance: 78 pF/m
Velocity: 85%
Dielectric constant: 1.38
Screening effectiveness: > 85 dB
Operating frequency: ≤ 12 GHz
Peak power rating: 8.4 kW
Operating voltage: 0.9 kV RMS
Insulation Resistance: > 10000 MΩ.km
DC resistance:

- Inner conductor: ≤ 4.75 Ω/km
- Outer conductor: ≤ 8.30 Ω/km

Frequency (MHz)	Attenuation (dB/100m) @ 20°C Typical	Power kW @ 40°C-Ambient Temperature Inner conductor: 100°C
10	1.16	6.15
30	2.05	3.53
100	3.80	1.91
200	5.55	1.25
300	6.75	1.09
450	8.40	0.89
900	12.25	0.62
1000	13.0	0.59
1500	16.35	0.48
1800	18.20	0.43
2000	19.30	0.41
3000	24.51	0.33
3500	26.82	0.29
5000	33.20	0.22
5700	35.90	0.19
10000	50.80	0.12
11000	54.00	0.10