koax24 cable configuration

Order number 050228

HF 240 ZH

High Performance Broadband Low Loss 50 Ohm Coaxial Communication Cable Designed for Use in Wireless Applications In Accordance to: IEC 60754-1 IEC 60754-2 IEC 61034-2

STRUCTURE

INNER CONDUCTOR	Plain Copper	1.40	Ø mm
DIELECTRIC	Gas Injected Skin-Foam-Skin Polyethylene	3.80	Ø mm ± 0.10
SHIELD	ALL + PET + ALL Adhesive Tape Coverage 100 %	0.15	mm
BRAID	Tinned Copper Coverage 77%	128 x 0.10	mm
SHEATH	Flame Retardant Non-Corrosive Thermoplastic Free of Halogens, Colour Black	6.10	Ø mm ± 0.10

ELECTRICAL DATA at 20 °C

Impedance	**50**	**Ohm ± 1.5**
Capacitance	**80**	**pF/m**
Velocity ratio	**84**	**%**
Resistance		
- inner conductor	11.5	Ohm/km
- braid	16.2	Ohm/km
Tension		
- sheat spark testing	4.5	kV

MECHANICAL DATA

Cable weight	**51.8**	**kg/km**
- copper	23.3	
- plastic	26.7	
Minimum bending radius		
- single	Ext x 5	
- repeated	Ext x 10	
Temperature range	**-30 ... +70**	**°C**

Attenuations dB/100m · Max. power rating W

MHz	5	10	30	50	150	220	450	600	800	900	1000	1500	1800	2000	2500	3000	5200	5800
dB	**1.8**	**2.5**	**4.1**	**5.2**	**8.9**	**10.9**	**16.2**	**18.7**	**21.9**	**22.9**	**24.5**	**30.8**	**34.1**	**36.7**	**40.9**	**45.5**	**63.4**	**67.6**
W	**3536**	**2500**	**1443**	**1118**	**645**	**533**	**373**	**323**	**280**	**264**	**250**	**204**	**186**	**177**	**158**	**144**	**110**	**104**

Structural return loss dB

MHz	30 - 450	450 - 1000	1000 - 2000	2000 - 3000	3000 - 4000	4000 - 5800
dB	**> 32**	**> 29**	**> 26**	**> 23**	**> 21**	**> 12**

Screening effectiveness dB

MHz	100 - 900	900 - 2000	2000 -3000
dB	**> 95**	**> 85**	**> 75**

If not otherwise declared, all values are nominal. Changes in design and construction due to technical progress without notice.

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