

HDF400 LOW LOSS 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor
Insulation
Outer Conductor
Jacket



PHYSICAL SPECIFICATIONS

Inner Conductor	Copper Clad Aluminum
Conductor Dia.(+/-0.02mm)	1 / 2.74
Min.Break Strength (N)	2700
Insulation	Foam P.E.
Insulation Dia.(+/-0.1mm)	7.24
Color	Neutral
Centricity (%)	≥ 85
Adhesion	10 to 100N @ 25mm
Shielding	
width (mm)	28
Thickness AL-PET-AL Bonded Foil	10/12/10μm
Foil overlap (mm)	≥ 4
Outer Conductor	Tinned Copper Wire Braid
Conductor Dia.(+/-0.01mm)	0.16
No. of Wires	192
Coverage (+/-3%)	92
Picks/dm	20.0
Lay length (mm)	48.4
Jacket	PE
Outer Dia (+/-0.2mm)	10.16
Color	BLACK
Tensile strength	≥ 13.5 N/mm ²
Elongation at break	≥ 300 %

Printing

Omniconnect 50 ohms Cables , HDF400 WW/YY
with sequential metering

PROPERTIES

Min.Bending Radius:	
Installation	25.4 mm
Repeated	101.6 mm
Max.Pulling Tension	726 N
Crush resistance of cable (load of 700N)	< 1 %
Rated Temperature	
Storage/operating temperature	-40~+75 °C
Outdoor Installation	-20 °C

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50	+/-3ohm
Capacitance	75±1	pF/m
Velocity ratio	> 82	%
DCR: Inner Conductor	< 4.6	ohm/km
DCR: Outer Conductor	< 4.9	ohm/km
Jacket Sparker	2500	VCA
Dielectric Strength	1000	VCA
Return loss	5-1000MHz	23 dB
	1000-3000MHz	18 dB
	1000-5800MHz	16 dB
Insulation resistance		> 100,000 MΩ·km
Transfer impedance	5-30 MHz	≤ 15 mΩ/m
Shielding Effectiveness	30-3000 MHz	> 85 dB
Frequency	(at 20 °C)	MAX. Attenuation
	30 MHz	2.40 dB/100m
	50 MHz	3.05 dB/100m
	150 MHz	5.50 dB/100m
	220 MHz	6.70 dB/100m
	450 MHz	9.70 dB/100m
	900 MHz	13.00 dB/100m
	1500 MHz	18.40 dB/100m
	1800 MHz	20.40 dB/100m
	2000 MHz	21.50 dB/100m
	2500 MHz	24.50 dB/100m
	3000 MHz	28.00 dB/100m
	5800 MHz	42.00 dB/100m