

HDF195 LOW LOSS 50 Ohms Coaxial Cable

CONSTRUCTION

Inner Conductor
Insulation
Outer Conductor
Jacket



PROPERTIES

Min.Bending Radius:	
Installation	12.7 mm
Repeated	50.8 mm
Max.Pulling Tension	182 N
Crush resistance of cable (load of 700N)	< 1 %
Rated Temperature	
Storage/operating temperature	-40~+75 °C
Outdoor Installation	-20 °C

PHYSICAL SPECIFICATIONS

Inner Conductor	Bare Copper Wire
Conductor Dia.(+/-0.02mm)	1 / 0.94
Min.Break Strength (N)	320
Insulation	Foam P.E.
Insulation Dia.(+/-0.1mm)	2.80
Color	Neutral
Centricity (%)	≥ 85
Adhesion	10 to 100N @ 25mm
Shielding	
width (mm)	11
Thickness AL-PET Bonded Foil	7/12/7μm
Foil overlap (mm)	≥1.5
Outer Conductor	Tinned Copper Wire Braid
Conductor Dia.(+/-0.01mm)	0.12
No. of Wires	112
Coverage (+/-3%)	91
Picks/dm	20.0
Lay length (mm)	32
Jacket	PVC
Outer Dia (+/-0.1mm)	4.95
Color	BLACK
Tensile strength	≥ 12.5 N/mm ²
Elongation at break	≥ 150 %

Printing

Omniconnect 50 ohms Cables , HDF195 WW/YY
with sequential metering

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50 +-3ohm	
Capacitance	74±1 pF/m	
Velocity ratio	> 82 %	
DCR: Inner Conductor	< 25 ohm/km	
DCR: Outer Conductor	< 16 ohm/km	
Jacket Sparker	2500 VCA	
Dielectric Strength	1000 VCA	
Return loss		
	5-1000MHz	23 dB
	1000-3000MHz	18 dB
Insulation resistance	> 100,000 MΩ.km	
Transfer impedance	5-30 MHz	≤ 15 mΩ/m
Shielding Effectiveness	100-1000 MHz	> 75 dB
Frequency (at 20 °C)	MAX. Attenuation	
30 MHz	6.50 dB/100m	
50 MHz	8.40 dB/100m	
150 MHz	14.60 dB/100m	
220 MHz	17.71 dB/100m	
450 MHz	25.50 dB/100m	
900 MHz	36.50 dB/100m	
1500 MHz	47.70 dB/100m	
1800 MHz	52.50 dB/100m	
2000 MHz	55.40 dB/100m	
2500 MHz	62.40 dB/100m	