

MACH-UTP Cat5E-High Speed Data Cable

1. Application: This specification is applicable to the 4P UTP lan cable
2. Construction :

Item	Description	Specification
Conductor	Bare Copper Wire	0.495 mm
Insulation	HDPE Color : with-blue, blue, white-orange, orange, white-green, green, white-brown, brown	0.88 mm
Twisted pair	Lay length \leq 38 mm	1.76 mm
Cable core	4 number of twisted pair stranded together to form the main core Lay length \leq 120 mm	3.7 \pm 0.5 mm
Sheath	PVC, with a rip cord under the sheath	5.1 \pm 0.5 mm

Item	Parameter
Conductor Resistance	\leq 10 Ω / 100m
Insulation Resistance	\geq 5000 M Ω km (DC500V Charged 1 min)
Voltage Endurance	DC1000V / min
Mutual Capacitance	\leq 5.6nF/100m
Core - core resistance unbalance	\leq 5.0%

High frequency performance				
Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)	NOTE
1	17	3	60	Fluke 100 Test
4	17	4.5	53.6	
10	17	7.1	47	
16	17	9.1	43.6	
20	17	10.2	42	
25	16	11.4	40.4	
31.25	15.1	12.9	38.7	
62.5	12.1	18.6	33.6	
100	10	24	30.1	