

## R195112 R&M Cat6A, F/UTP,LSZH, 500 MHz,305M.



### APPLICATION

Enhanced performance cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (10GbaseT) standard. Operates at bandwidth of 500MHz. This cable complies to the requirements of ANSI/TIA-568-C.2 & ISO/IEC 11801.

### FEATURES:

Shield acts gives Protection against Electromagnetic Interference and reduce electrical signal loss affecting the signal  
Tinned copper Drain wire mechanical protection and outer jacket LSZH.

### CONSTRUCTION

- Conductor : 23 AWG Solid bare Copper  
0.555 ± 0.010 mm
- Insulation : Polyolefin.
- Pairs : 2 Insulated conductors  
twisted together
- Core wrap : Polyester Tape
- Cu Cable Shield : F/UTP.  
Aluminum/Pol Tinned Copper Drain wire.
- Outer Sheath : LSZH –Grey(RAL-7032/7035)
- Cable Diameter : 7.5 ± 0.3 mm

### COLOUR CODE

PAIRNO	COLOUR
1-2	White and Orange
3-6	White and Green
4-5	White and Blue
7-8	White and Brown

### ELECTRICAL PROPERTIES

- Conductor Resistance : ≤ 9.38Ω/100m
- Characteristic Impedence : 100± 15Ω
- Mutual Capacitance : < 5.6nF/100m
- Resistance Unbalance : 5% Max
- Capacitance Unbalance : 330pF/100m
- Delay Skew : < 45nS

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### TRANSMISSION CHARACTERISTICS PER 90M PERMANENT LINK

Frequency (MHz)	Insertion Loss (dB) Max.	NEXT (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	19.1	62	64.2	61.2
4	3.5	64.1	21	61.8	52.1	49.1
8	5	59.4	21	57	46.1	43.1
10	5.5	57.8	21	55.5	44.2	41.2
16	7	54.6	20	52.2	40.1	37.1
20	7.8	53.1	19.5	50.7	38.2	35.2
25	8.8	51.5	19	49.1	36.2	33.2
31.25	9.8	50	18.5	47.5	34.3	31.3
62.5	14	45.1	16	42.7	28.3	25.3
100	18	41.8	14	39.3	24.2	21.2
200	26.1	36.9	11	34.3	18.2	15.2
250	29.5	35.3	10	32.7	16.2	13.2
300	32.7	34	9.2	31.4	14.6	11.6
400	38.4	29.9	8	27.1	12.1	9.1
500	43.8	26.7	8	23.8	10.2	7.2

#### CONNECTION SYSTEM :

Compatible with all common systems according to ANSI/TIA-568-C.2 & ISO/IEC 11801

#### MECHANICAL PROPERTIES

Bending Radius Pulling : 8 x Cable Diameter at - 20°C ± 1°  
Force : 11.5Kg

Temperature Range : 0° to +50°C  
Installation

Operation : -20° to +70°C

Flame properties  
Flammability :IEC 60332-1,IEC-60754-1, IEC 61034 & ASTM 2863

CABLE COLOR : Grey, RAL(7032/7035).

Drum Size : 305M