



Product Code XS61xx

Product Description

Type Category 6A U/UTP 4 Pair unscreened cable

Standards ISO11801 & TIA- 568-C.2,UL Subject 444

Applications Generic cabling systems. Including 10Base -T, 100Base -T 1000Base -T,, ATM 10G & Token Ring

This range of unscreened cables is designed to support Cat 6A Link and Channel performance.



Construction

Conductor	23AWG annealed bare copper
Insulation	Polyethylene
Colour Code	White/ Blue -Blue, White/ Orange -Orange, White/ Green -Green, White/ Brown -Brown
Separator	Special Cross
Overall Diameter	Nominal Diameter 7.8+/- 0.5 mm
Sheath thickness	0.5+/-0.05mm
Additional Components	Cable is supplied without ripcord unless specified by the customer Central separator for improved performance.
Printing	Jacket printed Black with Legend as per customer requirement

Mechanical Characteristics

Storage Temperature Range	-20°C To +75°C
Installation Temperature Range	+5°C To +50°C
Operating Temperature Range:	-20°C To +75°C
Nominal Weight	53KG/KM
Max. Recommended Pulling Tension:	100N
Min. Bend Radius/Minor Axis	30mm.
Min. Bend/Installation:	75mm

Low Frequency and DC (at 20°C)

D.C. resistance conductor	$\leq 9.5 \Omega/100m$
Resistance unbalance:	$< 3 \%$
Insulation resistance	$\geq 5000 M\Omega.km$
Mutual capacitance	$< 5.6nF/100m$
Capacitance unbalance	$< 330 pF/100m$
Nominal velocity of propagation	65%



Delay Skew (ns/100m) < 45

Electrical Transmission Performance

Frequency (MHz)	Insertion loss	NEXT	NEXT PS	ACR PS	ACR F	ACR F PS	Return Loss	Delay	ANEXT PS	AACRF PS
1	2.1	74.3	73.3	71.2	67.8	64.8	20.0	570	67.0	67.0
4	3.8	65.3	64.3	60.5	55.8	52.8	23.0	552	67.0	66.2
8	5.3	60.8	59.8	54.4	49.7	46.7	24.5	547	67.0	60.1
10	5.9	59.3	58.3	52.4	47.8	44.8	25.0	545	67.0	58.2
16	7.5	56.2	55.2	47.8	43.7	40.7	25.0	543	67.0	54.1
20	8.4	54.8	53.8	45.4	41.8	38.8	25.0	542	67.0	52.2
25	9.4	53.3	52.3	43.0	39.8	36.8	24.3	541	67.0	50.2
31.25	10.5	51.9	50.9	40.4	37.9	34.9	23.6	540	67.0	48.3
62.5	15.0	47.4	46.4	31.4	31.9	28.9	21.5	539	65.6	42.3
100	19.1	44.3	43.8	24.2	27.8	24.8	20.1	538	62.5	38.2
200	27.6	39.8	38.8	11.2	21.8	18.8	18.0	537	58.0	32.2
250	31.1	38.3	37.8	6.3	19.8	16.8	17.3	536	56.5	30.2
300	34.3	37.1	36.1	1.9	18.3	15.3	16.8	536	55.3	28.7
350	37.2	36.1	35.1		16.9	13.9	16.3	536	54.3	27.3
400	40.1	35.3	34.3		15.8	12.8	15.9	536	53.5	26.2
450	42.7	34.5	35.5		14.7	11.7	15.5	536	52.7	25.1
500	45.3	33.8	32.8		13.8	10.8	15.2	536	52.0	24.2

Environmental properties and Fire Performances

Fire Performance IEC60332-1-2

Smoke density IEC 61034-2

Halogen acid gas emission IEC 60754-1&2

XS6103	PVC	305m
XS6105	PVC	500m
XS6113	LSZH	305m
XS6115	LSZH	500m