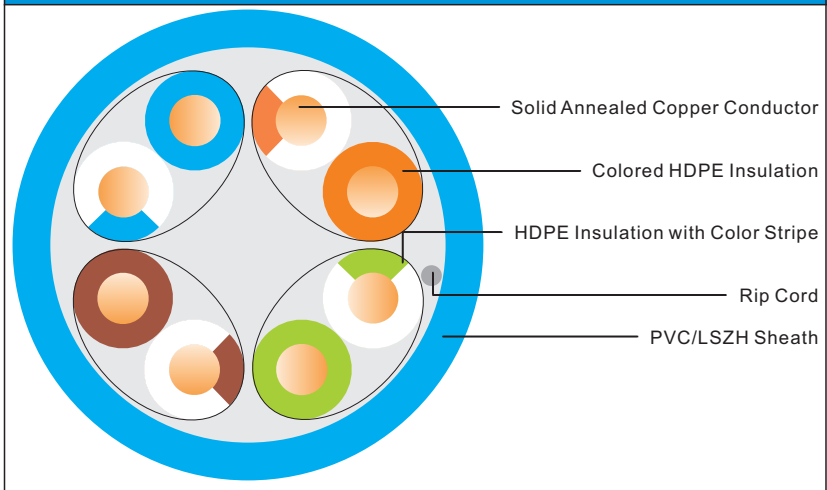
UTP Category 5e Indoor Cable(LTAC5100W-CMR/LTAC5100BL-CMR)

LTS
Video Solutions for Security Professionals™

Cross-Sectional View



Packing

Sheath Printing	Maximum Referenced Frequency
CAT5E UTP EIA/TIA-568-C.2 4PR 24AWG CMR (UL) E502360 75°C ROHS COMPLIANT S1747 xxxx FT	100 MHZ

Reference Standards
YD/T1019-2013
ANSI/TIA-568B-C.2
ISO/IEC11801 IEC61156.5
UI444, UL1666, CE, RoHS

Electrical Characteristics		
20℃ Conductor Resistance	Ω/km	≤93.5
Pair to Pair Capacitance Unbalance	%	≤2
Pair to Ground Capacitance Unbalance	%	/
Coupling Attenuation at 30~100 MHz	dB	/

Cable Construction	
Conductor	Solid Oxygen-free Copper
Number of Pairs	4P
Conductor OD	24AWG 0.48 (+/-0.005)mm
Insulation Material	HDPE
Insulation OD	0.88(+/-0.03)mm
Sheath Material	PVC
Sheath Thickness	0.55 (+/-0.05)mm
Sheath OD	5.1 (+/-0.05)mm
Operating Temperature	-20°C to 60°C
Lay Length（mm）	≤30
Cable Make up Length (mm)	≤140
Net Weight	8.8kg/305m

Pair Colors	
P1	Blue, White/Blue
P2	Orange, White/Orange
P3	Green, White/Green
P4	Brown, White/Brown

Physical Performance (Before Ageing)		Unit	
Elongation at Break of the Sheath	LSZH	%	≥125
	PVC	%	≥150
Tensile Strength of the Sheath	LSZH	Mpa	≥10.0
	PVC	Mpa	≥13.5

Environmental Characteristics (After Ageing)			Unit	
Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2)				
After Ageing (Average)	LSZH	Elogation at Break	%	≥100
		Elogation at Break Change Rate	%	-30~+30
After Ageing (Average)	PVC	Elogation at Break	%	≥125
		Elogation at Break Change Rate	%	-30~+30
Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)				
After Ageing (Average)	LSZH	Sheath Tensile	%	≥8.0
		Sheath Tensile Strength Change Rate	%	-30~+30
After Ageing (Average)	PVC	Sheath Tensile Strength	%	≥12.5
		Sheath Tensile Strength Change Rate	%	-30~+30
Cold Bend Test		No Cracking at -20° C, 8 times of the Sheath OD for 4 hours.		
Heat Shock Test		No Cracking at 150 ° C 1 hour.		

Performance Parameters: FLUKE Permanent Link Test

Frequency Point	Propagation Velocity	Attenuation (Max) at 20° C	TCL (Min)	EL TCL (Min)	NEXT (Min)	PS NEXT (Min)	EL FEXT (Min)	PS EL FEXT (Min)	RL (Min)
MHZ	m/s	dB	dB	dB	dB	dB	dB/100m	dB/100m	dB
4	≥0.604C	4.1	44	23	56.3	53.3	52	49	23
8	≥0.610C	5.8	41	16. 9	51.8	48.8	45.9	42.9	24.5
10	≥0.612C	6.5	40	15	50.3	47.3	44	41	25
16	≥0.614C	8.2	38	10. 9	47.2	44.2	39.9	36.9	25
20	≥0.615C	9.3	37	9	45.8	42.8	38	35	25
25	≥0.616C	10.4	36	7	44.3	41.3	36	33	24.3
31. 25	≥0.617C	11.7	35.1	/	42.9	39.9	34.1	31.1	23.6
62. 5	≥0.618C	17	32	/	38.4	35.4	28.1	25.1	21.5
100	≥0.619C	22	30	/	35.3	32.3	24	21	20.1