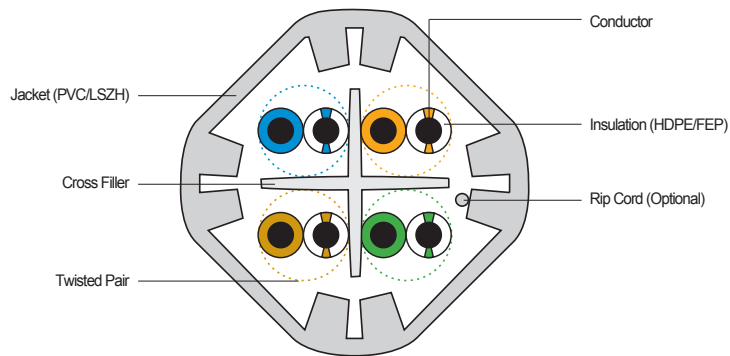


LS Category 6A(10G) UTP Cable

U06A004-xxxx



Description

- ETL Verified for guaranteed performance
- Capable of handling full broadband and baseband video signals
- High flame retardant grade of the cable is protected propagation of fire (Plenum Cable)
- Addition of balance requirements improves cable performance
- Every master reel is tested for electrical performance compliance.
- Specialized print legend contains footage marking from 1000' to 0', metric from 305 to 0 m and "DUAL MARKING" footage and metric
- Every box packaging is included "Reel", so wire pulls through box opening for easy access
- Alien Crosstalk and RoHS compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 / 10G BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description	Part Numbers		
	Blue	Grey	White
Category 6A UTP Cable, 4-Pair, CMX Rated	U06A004-XBL4	U06A004-XGY4	U06A004-XWH4
Category 6A UTP Cable, 4-Pair, CM Rated	U06A004-MBL4	U06A004-MGY4	U06A004-MWH4
Category 6A UTP Cable, 4-Pair, CMR Rated	U06A004-RBL4	U06A004-RGY4	U06A004-RWH4
Category 6A UTP Cable, 4-Pair, LSZH Rated	U06A004-LBL4	U06A004-LGY4	U06A004-LWH4

* Part Number # Description : 1(Reel I), 2(Reel II), 3(Reel In a Box), 4(Reel)

* Other colors available on request

Performance Characteristics

Frequency (MHz)	Return Loss (RL); dB			Insertion (Attenuation); dB			Near End Cross Talk(NEXT); dB			PSNEXT; dB			ELFEXT; dB			PSELFEXT; dB			PSANEXT; dB			PSAELFEXT; dB		
	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)
1	20.0	25.0	25.0	2.0	1.8	1.8	74.3	79.3	79.3	72.3	77.3	77.3	67.8	77.8	77.8	64.8	74.8	74.8	67.0	72.0	72.0	67.0	77.0	77.0
4	23.0	28.0	28.0	3.7	3.5	3.5	65.3	70.3	70.3	63.3	68.3	68.3	55.8	65.8	65.8	52.8	62.8	62.8	67.0	72.0	72.0	66.2	76.2	76.2
10	25.0	30.0	30.0	5.9	5.7	5.7	59.3	64.3	64.3	57.3	62.3	62.3	47.8	57.8	57.8	44.8	54.8	54.8	67.0	72.0	72.0	58.2	68.2	68.2
16	25.0	30.0	30.0	7.4	7.2	7.2	56.2	61.2	61.2	54.2	59.2	59.2	43.7	53.7	53.7	40.7	50.7	50.7	67.0	72.0	72.0	54.1	64.1	64.1
20	25.0	30.0	30.0	8.3	8.1	8.1	54.8	59.8	59.8	52.8	57.8	57.8	41.8	51.8	51.8	38.8	48.8	48.8	67.0	72.0	72.0	52.2	62.2	62.2
31.25	23.6	28.6	28.6	10.4	10.2	10.2	51.9	56.9	56.9	49.9	54.9	54.9	37.9	47.9	47.9	34.9	44.9	44.9	67.0	72.0	72.0	48.3	58.3	58.3
62.5	21.5	26.5	26.5	14.9	14.7	14.7	47.4	52.4	52.4	45.4	50.4	50.4	31.9	41.9	41.9	28.9	38.9	38.9	65.6	70.6	70.6	42.3	52.3	52.3
100	20.1	25.1	25.1	19.0	18.8	18.8	44.3	49.3	49.3	42.3	47.3	47.3	27.8	37.8	37.8	24.8	34.8	34.8	62.5	67.5	67.5	38.2	48.2	48.2
200	18.0	23.0	23.0	27.5	27.3	27.3	39.8	44.8	44.8	37.8	42.8	42.8	21.8	31.8	31.8	18.8	28.8	28.8	58.0	63.0	63.0	32.2	42.2	42.2
250	17.3	22.3	22.3	31.0	30.8	30.8	38.3	43.3	43.3	36.3	41.3	41.3	19.8	29.8	29.8	16.8	26.8	26.8	56.5	61.5	61.5	30.2	40.2	40.2
400	15.9	20.9	20.9	40.0	39.8	39.8	35.3	40.3	40.3	33.3	38.3	38.3	15.8	25.8	25.8	12.8	22.8	22.8	53.5	58.5	58.5	26.2	36.2	36.2
500	15.2	20.2	20.2	45.3	45.1	45.1	33.8	38.8	38.8	31.8	36.8	36.8	13.8	23.8	23.8	10.8	20.8	20.8	52.0	57.0	57.0	24.2	34.2	34.2

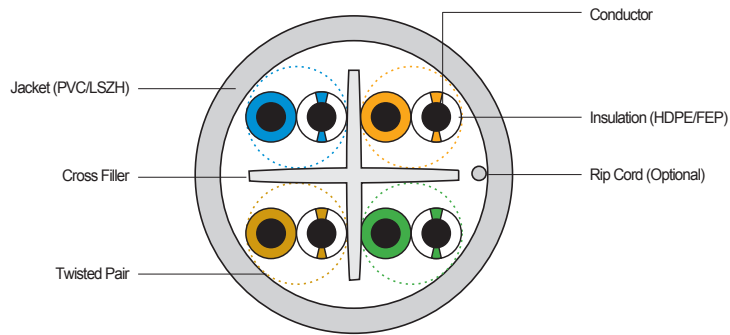
* Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.

Technical Details

Item	Unit	PVC / LSZH	Plenum
Conductor DC Resistance	Ohms/100 m	9.38	9.38
Resistance Unbalance	%	5	5
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	330	330
Characteristic Impedance	Ohms	100 ±15%	100 ±15%
Propagation Delay	ns/100 m	536 @ 500 MHz	536 @ 500 MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	67	69
Operating Temperature	°C	-20 ~ 60	-20 ~ 60
Storage Temperature	°C	-20 ~ 80	-20 ~ 80
Bending Radius		5 x Cable Diameter	5 x Cable Diameter
Packaging	Type	305 m (1000ft)	Reel
	Weight	lb/kft (kg/km)	40 (60)
Materials	Conductors		23 AWG, Solid copper
	Insulation	in. (mm)	1.05 ϕ, HDPE
	Jacket	in. (mm)	8.5 ϕ, PVC or LSZH (Low Smoke Zero Halogen)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 CMP - UL910 LSZH - IEC61034, IEC60754	
	Performance	TIA/EIA-568-B.2-1 "Performance specifications for 100 Ohm Category 6A Cabling"	

LS Category 6E UTP Cable

U06A004-xxxx



Description

- Capable of handling full broadband and baseband video signals
- High flame retardant grade of the cable is protected propagation of fire (Plenum Cable)
- Addition of balance requirements improves cable performance
- Every master reel is tested for electrical performance compliance.
- Specialized print legend contains footage marking from 1000' to 0', metric from 305 to 0 m and "DUAL MARKING" footage and metric
- Every box packaging is included "Plastic reel", so wire pulls through box opening for easy access
- RoHS Compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 BASE-T (IEEE 802.3)
- 155 Mbps, 1.2 Gbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description	Part Numbers		
	Blue	Grey	White
Category 6E UTP Cable, 4-Pair, CMX Rated	U06E004-XBL3	U06E004-XGY3	U06E004-XWH3
Category 6E UTP Cable, 4-Pair, CM Rated	U06E004-MBL3	U06E004-MGY3	U06E004-MWH3
Category 6E UTP Cable, 4-Pair, CMR Rated	U06E004-RBL3	U06E004-RGY3	U06E004-RWH3
Category 6E UTP Cable, 4-Pair, CMP Rated	U06E004-PBL3	U06E004-PGY3	U06E004-PWH3
Category 6E UTP Cable, 4-Pair, LSZH Rated	U06E004-LBL3	U06E004-LGY3	U06E004-LWH3

Performance Characteristics

Frequency (MHz)	Return Loss (RL); dB				Insertion Loss (Attenuation); dB				Near End Cross Talk (NEXT); dB				Equal Level Far End Cross Talk (ELFEXT); dB			
	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Cat.6E Plenum (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Cat.6E Plenum (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Cat.6E Plenum (Typical)	Standard	Cat.6E PVC (Typical)	Cat.6E LSZH (Typical)	Cat.6E Plenum (Typical)
1	20.0	28.0	28.0	30.0	2.0	1.80	1.80	1.80	80.3	90.0	90.0	90.0	73.8	90.0	90.0	90.0
4	23.0	32.0	32.0	33.0	3.7	3.45	3.45	3.45	71.3	80.0	80.0	82.0	61.8	78.0	78.0	80.0
10	25.0	34.0	34.0	35.0	5.8	5.50	5.50	5.50	65.3	78.0	78.0	80.0	53.8	70.0	70.0	72.0
16	25.0	34.0	34.0	35.0	7.4	7.00	7.00	7.00	62.2	74.0	74.0	75.0	49.7	66.0	66.0	68.0
20	25.0	36.0	36.0	37.0	8.2	7.80	7.80	7.80	60.8	72.0	72.0	72.0	47.8	65.0	65.0	67.0
31.25	25.0	36.0	36.0	37.0	10.4	9.90	9.90	9.90	57.9	68.0	68.0	68.0	43.9	60.0	60.0	62.0
62.5	23.5	36.0	36.0	37.0	14.8	14.30	14.30	14.30	53.4	62.0	62.0	62.0	37.9	56.0	56.0	58.0
100	22.1	34.0	34.0	35.0	18.9	18.20	18.20	18.20	50.3	57.0	57.0	58.0	33.8	52.0	52.0	54.0
125	21.4	34.0	34.0	35.0	21.3	20.50	20.50	20.50	48.8	56.0	56.0	57.0	31.9	48.0	48.0	50.0
155	20.8	32.0	32.0	33.0	23.9	23.00	23.00	23.00	47.4	54.0	54.0	55.0	30.0	47.0	47.0	49.0
200	20.0	32.0	32.0	33.0	27.3	26.30	26.30	26.30	45.8	52.0	52.0	53.0	27.8	42.0	42.0	44.0
250	19.3	30.0	30.0	31.0	30.8	29.00	29.00	29.00	44.3	51.0	51.0	52.0	25.8	40.0	40.0	42.0
300	18.8	30.0	30.0	31.0	34.0	32.20	32.20	32.20	43.1	50.0	50.0	51.0	24.3	39.0	39.0	41.0
400	16.9	28.0	28.0	29.0	39.8	38.00	38.00	38.00	41.3	48.0	48.0	49.0	21.8	37.0	37.0	39.0
500	16.2	28.0	28.0	29.0	45.0	43.00	43.00	43.00	39.8	46.0	46.0	47.0	19.8	35.0	35.0	37.0

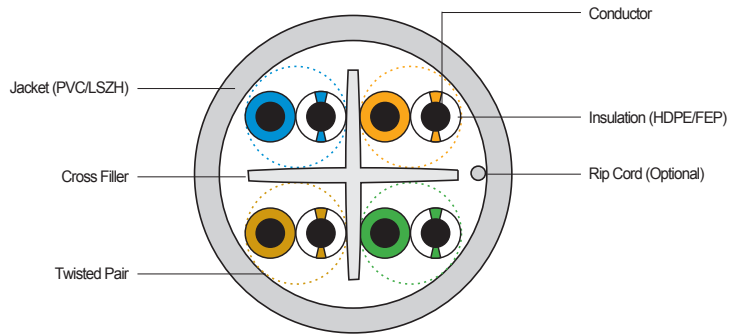
* Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.

Technical Details

Item	Unit	PVC / LSZH	Plenum
Conductor DC Resistance	Ohms/100 m	9.38	9.38
Resistance Unbalance	%	3	3
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	160	160
Characteristic Impedance	Ohms	100 ±15%	100 ±15%
Propagation Delay	ns/100 m	536 @ 250 MHz	536 @ 250 MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	70	72
Operating Temperature	°C	-20 ~ 60	-20 ~ 60
Storage Temperature	°C	-20 ~ 80	-20 ~ 80
Bending Radius		5 x Cable Diameter	5 x Cable Diameter
Packaging	Type	305 m (1000ft)	Reel in a Box
	Weight	lb/kft (kg/km)	11 (17)
Materials	Conductors		23 AWG, Solid copper
	Insulation	in. (mm)	0.043 (1.10) ϕ , HDPE
	Jacket	in. (mm)	0.244 (6.2) ϕ , PVC or LSZH (Low Smoke Zero Halogen)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 CMP - UL910 LSZH - IEC61034, IEC60754	
	Performance	TIA/EIA-568-B.2-1 "Performance specifications for 4-Pair 100 Ohm Category 6 Cabling"	

LS Category 6 UTP Cable

U006004-xxxx



Description

- UL, ETL, DELTA Verified for guaranteed performance
- Capable of handling full broadband and baseband video signals
- High flame retardant grade of the cable is protected propagation of fire (Plenum Cable)
- Addition of balance requirements improves cable performance
- Every master reel is tested for electrical performance compliance.
- Specialized print legend contains footage marking from 1000' to 0', metric from 305 to 0m and "DUAL MARKING" footage and metric
- Every box packaging is included "Plastic reel", so wire pulls through box opening for easy access
- RoHS Compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description	Part Numbers		
	Blue	Grey	White
Category 6 UTP Cable, 4-Pair, CMX Rated	U006004-XBL3	U006004-XGY3	U006004-XWH3
Category 6 UTP Cable, 4-Pair, CM Rated	U006004-MBL3	U006004-MGY3	U006004-MWH3
Category 6 UTP Cable, 4-Pair, CMR Rated	U006004-RBL3	U006004-RGY3	U006004-RWH3
Category 6 UTP Cable, 4-Pair, CMP Rated	U006004-PBL3	U006004-PGY3	U006004-PWH3
Category 6 UTP Cable, 4-Pair, LSZH Rated	U006004-LBL3	U006004-LGY3	U006004-LWH3

Performance Characteristics (Meet or exceed TIA/EIA-568-B.2-1 Category 6 requirements)

Frequency (MHz)	Return Loss (RL); dB				Insertion Loss (Attenuation); dB				Near End Cross Talk (NEXT); dB				Equal Level Far End Cross Talk (ELFEXT); dB			
	Standard	Cat.6 PVC (Typical)	Cat.6 LSZH (Typical)	Cat.6 Plenum (Typical)	Standard	Cat.6 PVC (Typical)	Cat.6 LSZH (Typical)	Cat.6 Plenum (Typical)	Standard	Cat.6 PVC (Typical)	Cat.6 LSZH (Typical)	Cat.6 Plenum (Typical)	Standard	Cat.6 PVC (Typical)	Cat.6 LSZH (Typical)	Cat.6 Plenum (Typical)
0.772	-	-	-	-	1.8	1.5	1.5	1.5	76.0	90.0	90.0	92.0	-	-	-	-
1	20.0	25.0	25.0	28.0	2.0	1.7	1.7	1.7	74.3	86.0	86.0	88.0	67.8	86.0	86.0	84.0
4	23.0	30.0	30.0	32.0	3.8	3.6	3.6	3.4	65.3	75.0	75.0	77.0	55.8	75.0	75.0	73.0
10	25.0	32.0	32.0	33.0	6.0	5.6	5.6	5.4	59.3	71.0	71.0	73.0	47.8	67.0	67.0	65.0
16	25.0	32.0	32.0	34.0	7.6	7.2	7.2	7.0	56.2	69.0	69.0	71.0	43.7	63.0	63.0	61.0
20	25.0	33.0	33.0	34.0	8.5	8.1	8.1	7.9	54.8	68.0	68.0	70.0	41.8	62.0	62.0	60.0
31.25	23.6	34.0	34.0	36.0	10.7	10.2	10.2	10.0	51.9	64.0	64.0	66.0	37.9	57.0	57.0	55.0
62.5	21.5	34.0	34.0	35.0	15.4	14.7	14.7	14.5	47.4	57.0	57.0	59.0	31.9	53.0	53.0	51.0
100	20.1	33.0	33.0	35.0	19.8	18.7	18.7	18.5	44.3	52.0	52.0	54.0	27.8	49.0	49.0	47.0
125	19.4	33.0	33.0	33.0	22.4	21.2	21.2	21.0	42.8	51.0	51.0	53.0	25.9	45.0	45.0	43.0
155	18.8	31.0	31.0	33.0	25.2	23.9	23.9	23.7	41.4	48.0	48.0	50.0	24.0	44.0	44.0	42.0
200	18.0	30.0	30.0	31.0	29.0	27.5	27.5	27.3	39.8	47.0	47.0	49.0	21.8	39.0	39.0	37.0
250	17.3	29.0	29.0	30.0	32.8	30.7	30.7	30.5	38.3	46.0	46.0	48.0	19.8	37.0	37.0	36.0
300	16.8	28.0	28.0	29.0	36.4	34.1	34.1	33.9	37.1	45.0	45.0	46.0	18.3	36.0	36.0	35.0
400	15.9	27.0	27.0	28.0	43.0	38.6	38.6	38.4	35.3	41.0	41.0	42.0	15.8	34.0	34.0	34.0
500	15.2	26.0	26.0	27.0	48.9	36.6	36.6	36.4	33.8	39.0	39.0	40.0	13.8	32.0	32.0	32.0

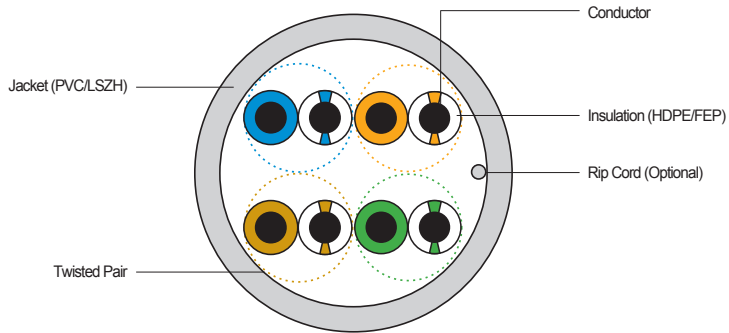
* Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.
Values above 250MHz are information only.

Technical Details

Item	Unit	PVC /LSZH	Plenum
Conductor DC Resistance	Ohms/100 m	9.38	9.38
Resistance Unbalance	%	5	5
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	330	330
Characteristic Impedance	Ohms	100 ±15%	100 ±15%
Propagation Delay	ns/100 m	536 @ 250 MHz	536 @ 250 MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	67	67
Operating Temperature	°C	-20 ~ 60	-20 ~ 60
Storage Temperature	°C	-20 ~ 80	-20 ~ 80
Bending Radius		5 x Cable Diameter	5 x Cable Diameter
Packaging	Type	305 m (1000ft)	Reel in a Box
	Weight	lb/kft (kg/km)	9 (13)
Materials	Conductors	23 AWG, Solid copper	
	Insulation	in. (mm)	0.037 (0.95) ϕ, HDPE
	Jacket	in. (mm)	0.228 (5.8) ϕ, PVC or LSZH (Low Smoke Zero Halogen)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 CMP - UL910 LSZH - IEC61034, IEC60754	
	Performance	UL Verified to: TIA/EIA-568-B.2-1 "Performance specifications for 4-Pair 100 Ohm Category 6 Cabling"	

LS Category 5E 350M UTP Cable

U5EA004-xxxx



Description

- Supports Fast Ethernet, Gigabit Ethernet, 155 Mb/s ATM, Multimedia
- All accepted design for global commercial network installation
- Simplified structured cabling solution preserving long-term network investment
- Every master reel is tested for electrical performance compliance
- Specialized print legend contains footage marking from 1000' to 0', metric from 305 to 0 m and "DUAL MARKING" footage and metric
- RoHS Compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description	Part Numbers		
	Blue	Grey	White
Enhanced Category 5e UTP Cable, 4-Pair, CMX Rated	U5EA004-XBL1	U5EA004-XGY1	U5EA004-XWH1
Enhanced Category 5e UTP Cable, 4-Pair, CM Rated	U5EA004-MBL1	U5EA004-MGY1	U5EA004-MWH1
Enhanced Category 5e UTP Cable, 4-Pair, CMR Rated	U5EA004-RBL1	U5EA004-RGY1	U5EA004-RWH1
Enhanced Category 5e UTP Cable, 4-Pair, CMP Rated	U5EA004-PBL1	U5EA004-PGY1	U5EA004-PWH1
Enhanced Category 5e UTP Cable, 4-Pair, LSZH Rated	U5EA004-LBL1	U5EA004-LGY1	U5EA004-LWH1

Performance Characteristics

Frequency (MHz)	Return Loss (RL); dB				Insertion Loss (Attenuation); dB				Near End Cross Talk (NEXT); dB				Equal Level Far End Cross Talk (ELFEXT); dB			
	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	En-Cat.5e Plenum (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	En-Cat.5e Plenum (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	En-Cat.5e Plenum (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	En-Cat.5e Plenum (Typical)
1	20.0	25.0	25.0	26.0	1.9	1.8	1.8	1.7	68.3	73.0	73.0	74.0	66.8	72.0	72.0	73.0
4	23.0	29.0	29.0	30.0	3.9	3.8	3.8	3.7	59.3	66.0	66.0	67.0	54.8	67.0	67.0	68.0
10	25.0	31.0	31.0	32.0	6.1	6.0	6.0	5.8	53.3	59.0	59.0	60.0	46.8	57.0	57.0	58.0
16	25.0	31.0	31.0	32.0	7.8	7.6	7.6	7.4	50.2	56.0	56.0	57.0	42.7	52.0	52.0	53.0
20	25.0	31.0	31.0	32.0	8.8	8.8	8.8	8.6	48.8	55.0	55.0	56.0	40.8	50.0	50.0	51.0
31.25	23.6	30.0	30.0	31.0	11.2	11.0	11.0	10.8	45.9	53.0	53.0	54.0	36.9	47.0	47.0	48.0
62.5	21.5	28.0	28.0	29.0	16.2	16.2	16.2	15.9	41.4	50.0	50.0	51.0	30.9	44.0	44.0	45.0
100	20.1	27.0	27.0	28.0	21.0	20.5	20.5	20.5	38.3	48.0	48.0	49.0	26.8	42.0	42.0	43.0
200	18.0	25.0	25.0	26.0	31.0	30.6	30.6	30.5	33.8	43.0	43.0	46.0	20.8	40.0	40.0	41.0
300	16.8	23.0	23.0	24.0	39.2	38.0	38.0	38.0	31.1	41.0	41.0	42.0	17.3	37.0	37.0	38.0
350	16.3	23.0	23.0	24.0	43.0	40.0	40.0	40.0	30.1	40.0	40.0	41.0	15.9	34.0	34.0	35.0

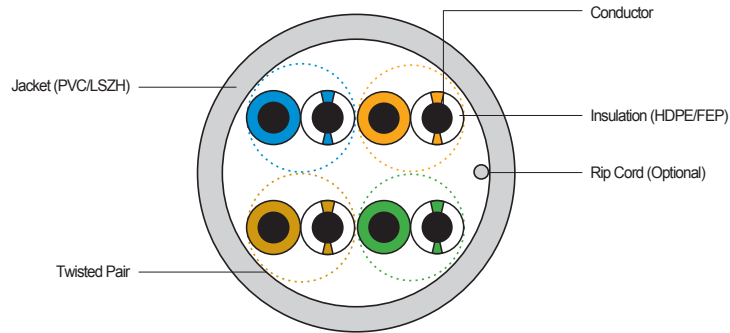
*Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.

Technical Details

Item	Unit	PVC / LSZH	Plenum
Conductor DC Resistance	Ohms/100 m	9.38	9.38
Resistance Unbalance	%	5	5
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	160	160
Characteristic Impedance	Ohms	100 ± 15%	100 ± 15%
Propagation Delay	ns/100 m	538 @ 100 MHz	538 @ 100 MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	70	72
Operating Temperature	°C	-20 ~ 60	-20 ~ 60
Storage Temperature	°C	-20 ~ 80	-20 ~ 80
Bending Radius		5 x Cable Diameter	5 x Cable Diameter
Packaging	Type	305 m (1000ft)	Reelex
	Weight	lb/kft (kg/km)	6 (9)
Materials	Conductors	24 AWG, Solid copper	
	Insulation	in. (mm)	0.035 (0.90) ϕ , HDPE
	Jacket	in. (mm)	0.189 (4.8) ϕ , PVC or LSZH (Low Smoke Zero Halogen)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 CMP - UL910 LSZH - IEC61034, IEC60754	
	Performance	TIA/EIA-568-B.2 "Performance specifications for 4-Pair 100 Ohm Enhanced Category 5e Cabling"	

LS Category 5e UTP Cable

U05E004-xxxx



Description

- UL, ETL, DELTA Verified for guaranteed performance
- Supports Fast Ethernet, Gigabit Ethernet, 155 Mb/s ATM, Multimedia
- All accepted design for global commercial network installation
- Simplified structured cabling solution preserving long-term network investment
- Every master reel is tested for electrical performance compliance
- Specialized print legend contains footage marking from 1000' to 0', metric from 305 to 0 m and "DUAL MARKING" footage and metric
- RoHS Compliant

Application

- Horizontal Distribution & Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description	Part Numbers		
	Blue	Grey	White
Category 5e UTP Cable, 4-Pair, CMX Rated  	U05E004-XBL1	U05E004-XGY1	U05E004-XWH1
Category 5e UTP Cable, 4-Pair, CM Rated  	U05E004-MBL1	U05E004-MGY1	U05E004-MWH1
Category 5e UTP Cable, 4-Pair, CMR Rated  	U05E004-RBL1	U05E004-RGY1	U05E004-RWH1
Category 5e UTP Cable, 4-Pair, CMP Rated  	U05E004-PBL1	U05E004-PGY1	U05E004-PWH1
Category 5e UTP Cable, 4-Pair, LSZH Rated 	U05E004-LBL1	U05E004-LGY1	U05E004-LWH1

Performance Characteristics (Meet or exceed TIA/EIA-568-B.2 Category 5e requirements)

Frequency (MHz)	Return Loss (RL); dB				Insertion Loss (Attenuation); dB				Near End Cross Talk (NEXT); dB				Equal Level Far End Cross Talk (ELFEXT); dB			
	Standard	Cat.5e PVC (Typical)	Cat.5e LSZH (Typical)	Cat.5e Plenum (Typical)	Standard	Cat.5e PVC (Typical)	Cat.5e LSZH (Typical)	Cat.5e Plenum (Typical)	Standard	Cat.5e PVC (Typical)	Cat.5e LSZH (Typical)	Cat.5e Plenum (Typical)	Standard	Cat.5e PVC (Typical)	Cat.5e LSZH (Typical)	Cat.5e Plenum (Typical)
1	20.0	24.0	24.0	25.0	2.0	1.8	1.8	1.7	65.3	70.0	70.0	72.0	63.8	70.0	70.0	72.0
4	23.0	28.0	28.0	29.0	4.1	3.8	3.8	3.7	56.3	63.0	63.0	65.0	51.8	65.0	65.0	67.0
10	25.0	30.0	30.0	31.0	6.5	6.0	6.0	5.8	50.3	56.0	56.0	58.0	43.8	55.0	55.0	57.0
16	25.0	30.0	30.0	31.0	8.2	7.6	7.6	7.4	47.2	53.0	53.0	55.0	39.7	50.0	50.0	52.0
20	25.0	30.0	30.0	31.0	9.3	8.8	8.8	8.6	45.8	52.0	52.0	54.0	37.8	48.0	48.0	50.0
31.25	23.6	29.0	29.0	30.0	11.7	11.0	11.0	10.8	42.9	50.0	50.0	52.0	33.9	45.0	45.0	47.0
62.5	21.5	27.0	27.0	28.0	17.0	16.2	16.2	15.9	38.4	47.0	47.0	49.0	27.9	42.0	42.0	44.0
100	20.1	26.0	26.0	27.0	22.0	20.5	20.5	20.5	35.3	45.0	45.0	47.0	23.8	40.0	40.0	42.0
200	18.0	24.0	24.0	25.0	32.4	30.6	30.6	30.5	30.8	42.0	42.0	44.0	17.8	38.0	38.0	40.0
300	16.8	22.0	22.0	23.0	41.0	38.0	38.0	38.0	28.1	38.0	38.0	40.0	14.3	35.0	35.0	37.0
350	16.3	22.0	22.0	23.0	44.9	40.0	40.0	40.0	27.1	37.0	37.0	39.0	12.9	32.0	32.0	34.0

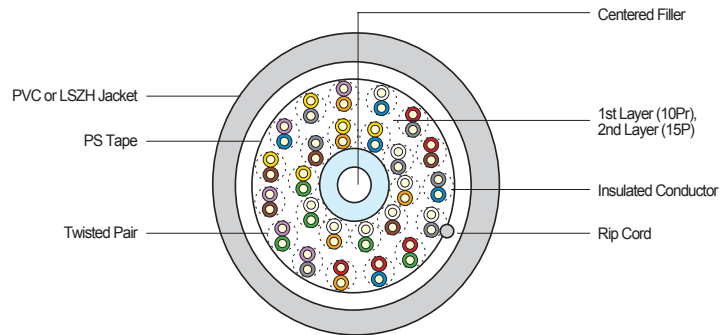
* Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.
Values above 100MHz are information only.

Technical Details

Item	Unit	PVC / LSZH	Plenum
Conductor DC Resistance	Ohms/100 m	9.38	9.38
Resistance Unbalance	%	5	5
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	330	330
Characteristic Impedance	Ohms	100 ± 15%	100 ± 15%
Propagation Delay	ns/100 m	538 @ 100 MHz	538 @ 100 MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	67	68
Operating Temperature	°C	-20 ~ 60	-20 ~ 60
Storage Temperature	°C	-20 ~ 80	-20 ~ 80
Bending Radius		5 x Cable Diameter	5 x Cable Diameter
Packaging	Type	305 m (1000ft)	Reelex
	Weight	lb/kft (kg/km)	6 (9)
Materials	Conductors	24 AWG, Solid copper	
	Insulation	in. (mm)	0.035 (0.90) ϕ , HDPE
	Jacket	in. (mm)	0.189 (4.8) ϕ , PVC or LSZH (Low Smoke Zero Halogen)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 CMP - UL910 LSZH - IEC61034, IEC60754	
	Performance	UL Verified to: TIA/EIA-568-B.2 "Performance specifications for 4-Pair 100 Ohm Category 5e Cabling "	

LS Category 5E 25pr UTP Cable

U05E025-xxxx



Description

- UL Verified for guaranteed performance
- Supports Fast Ethernet , Gigabit Ethernet , 155 Mb/s ATM , Multimedia
- All accepted design for global commercial network installation
- Simplified structured cabling solution preserving long-term network investment
- Every master reel is tested for electrical performance compliance
- RoHS Compliant

Application

- Backbone Cabling
- 4 / 16 Mbps Token Ring (IEEE 802.5)
- 10 / 100 / 1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- ISDN, ADSL

Part Numbers

Description		Part Numbers		
		Blue	Grey	White
Category 5E UTP Cable, 25-Pair, CMX Rated	Ⓛ	U05E025-XBL4	U05E025-XGY4	U05E025-XWH4
Category 5E UTP Cable, 25-Pair, CM Rated	Ⓛ	U05E025-MBL4	U05E025-MGY4	U05E025-MWH4
Category 5E UTP Cable, 25-Pair, CMR Rated	Ⓛ	U05E025-RBL4	U05E025-RGY4	U05E025-RWH4
Category 5E UTP Cable, 25-Pair, LSZH Rated		U05E025-LBL4	U05E025-LGY4	U05E025-LWH4

Performance Characteristics

Frequency (MHz)	Return Loss (RL); dB			Insertion Loss (Attenuation); dB			Near End Cross Talk (NEXT); dB			Equal Level Far End Cross Talk (ELFEXT); dB			Power Sum Near End Cross Talk (PSNEXT); dB			Power Sum Equal Level Far End Cross Talk (ELFEXT); dB		
	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)	Standard	En-Cat.5e PVC (Typical)	En-Cat.5e LSZH (Typical)
0.772	-	-	-	-	-	-	67.0	72.0	72.0	-	-	-	64.0	70.0	70.0	-	-	-
1	20.0	25.0	25.0	2.0	1.8	1.8	65.3	69.0	69.0	63.8	74.0	74.0	62.3	67.0	67.0	60.8	72.0	72.0
4	23.0	29.0	29.0	4.1	3.8	3.8	56.3	62.0	62.0	51.8	69.0	69.0	53.2	60.0	60.0	48.8	67.0	67.0
10	25.0	31.0	31.0	6.5	6.0	6.0	50.3	55.0	55.0	43.8	59.0	59.0	47.3	53.0	53.0	40.8	57.0	57.0
16	25.0	31.0	31.0	8.2	7.6	7.6	47.2	52.0	52.0	39.7	54.0	54.0	44.2	50.0	50.0	36.7	52.0	52.0
20	25.0	31.0	31.0	9.3	8.8	8.8	45.8	51.0	51.0	37.8	52.0	52.0	42.7	49.0	49.0	34.8	50.0	50.0
31.25	23.6	30.0	30.0	11.7	11.0	11.0	42.9	49.0	49.0	33.9	49.0	49.0	39.8	47.0	47.0	30.9	47.0	47.0
62.5	21.5	28.0	28.0	17.0	16.2	16.2	38.4	45.0	45.0	27.9	46.0	46.0	35.3	43.0	43.0	24.9	44.0	44.0
100	20.1	27.0	27.0	22.0	20.5	20.5	35.3	42.0	42.0	23.8	44.0	44.0	32.3	40.0	40.0	20.8	42.0	42.0

* Note. Expressed sweep-tested through the specified frequency ranges in dB per 100m (328ft) length.

Technical Details

Item	Unit	PVC / LSZH
Conductor DC Resistance	Ohms/100 m	9.38
Resistance Unbalance	%	5
Mutual Capacitance	nF/100 m	5.6
Capacitance Unbalance	pF/100 m	330
Characteristic Impedance	Ohms	100 ± 15%
Propagation Delay	ns/100 m	538 @ 100 MHz
Delay Skew	ns	45
Nominal Velocity of Propagation	%	70
Operating Temperature	°C	-20 ~ 60
Storage Temperature	°C	-20 ~ 80
Bending Radius		10 x Cable Diameter
Packaging	Type	305 m (1000ft)
	Weight	lb/kft (kg/km)
Materials	Conductors	24 AWG, Solid copper
	Insulation	in. (mm)
	Jacket	in. (mm)
Approvals	Safety	UL 444 CMX - UL1581, IEC332-1 CM - UL1685, IEC332-3 CMR - UL1666 LSZH - IEC61034, IEC60754
	Performance	UL Verified to: TIA/EIA-568-B.2 "Performance specifications for 100 Ohm Category 5e Cabling"