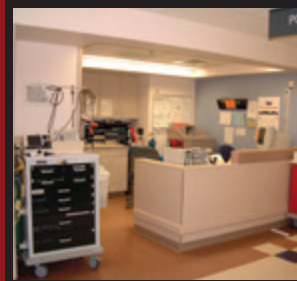


Quick Reference Copper Cable Selection Guide

			Jacket Colors & Part Numbers				
			White	Blue	Pink	Yellow	Gray
UTP Cables	GigaLAN 10 Small Diameter – Category 6A	Riser	M59155	M59156	M59157	M59158	M59159
		Plenum	M59145	M59146	M59147	M59148	M59149
	GigaLAN 10 – Category 6A	Riser	M58651	M58650	M58688	M58652	M58653
		Plenum	M58647	M58646	M58682	M58648	M58649
	GigaLAN – Category 6E	Riser	M57418	M57419	M57867	M57420	M57422
		Plenum	M57413	M57414	M57750	M57415	M57417
	AdvanceNet – Category 6e+	Riser	M56889	M57202	M57203	M57204	M57205
		Plenum	M56905	M57193	M57194	M57195	M57196
	6 LAN Plus – Category 6e	Riser	M58805	M58804	M58919	M58920	M58806
		Plenum	M58802	M58801	M58914	M58863	M58803
	6 LAN – Category 6	Riser	M58291	M58292	M58293	M58294	M58295
		Plenum	M58280	M58281	M58282	M58283	M58285
	MegaLAN – Category 5E	Riser	M55989	M56167	M56094	M56095	M56746
		Plenum	M55988	M56168	M56092	M56093	M56882
	5e LAN – Category 5e	Riser	M57554	M57553	M57555	M57556	M57552
		Plenum	M57547	M57546	M57548	M57550	M57545
F/UTP Cables	XG6 F/UTP – Category 6A	Riser	M58817	M58816	M58896	M58894	M58895
		Plenum	M58782	M58781	M58888	M58886	M58887
	Category 6	Riser	M58155	M58156	M58157	M58158	M58159
		Plenum	M58175	M58176	M58177	M58178	M58179
	MegaLAN – Category 5E	Riser	M55987	M57370	M57371	M57372	M57373
		Plenum	M55986	M57360	M57322	M57361	M57362
	5e LAN – Category 5e	Riser	M58195	M58196	M58197	M58198	M58145
		Plenum	M58185	M58186	M58187	M58188	M58144

			Cable Count & Type						
			25-pair UTP	50-pair UTP	100-pair UTP	200-pair UTP	300-pair UTP	25-pair F/UTP	Page #
Hi-pair	Category 5e	Riser	M58141	M58522	–	–	–	M58520	16
		Plenum	M58142	–	–	–	–	M58521	
	Category 3	Riser	M55700	M55216	M55211	M55212	M57098	–	17
		Plenum	M56801	M56126	M56128	M56129	M57211	–	



Quick Reference Copper Cable Selection Guide (Cont.)

Green	Red	Orange	Black	Violet	Packaging			Page #
					Reel	Box	Reel-in-a-box	
M59160	M59161	M59162	M59163	M59164	✓	–	✓	8
M59150	M59151	M59152	M59153	M59154	✓	–	✓	
M58689	M58690	M58691	M58692	M58693	✓	–	✓	9
M58683	M58684	M58685	M58686	M58687	✓	–	✓	
M57421	M57621	M57868	M57869	M57870	✓	–	✓	10
M57416	M57620	M57861	M57866	M57860	✓	–	✓	
M57206	M57207	M57208	M57209	M57210	✓	✓	✓	11
M57197	M57198	M57199	M57200	M57201	✓	✓	✓	
M58922	M58923	M58924	M58925	M58795	✓	✓	✓	12
M58915	M58916	M58917	M58918	M58794	✓	✓	✓	
M58296	M58297	M58298	M58299	M58300	✓	✓	✓	13
M58286	M58287	M58288	M58289	M58290	✓	✓	✓	
M56165	M56670	M56954	M57129	M57048	✓	✓	✓	14
M56166	M56072	M56876	M56877	M56878	✓	✓	✓	
M57557	M58008	M58009	M58010	M58007	✓	✓	✓	15
M57551	M57887	M57924	M57936	M57761	✓	✓	✓	
M58897	M58898	M58899	M58900	M58901	✓	–	–	18
M58889	M58890	M58891	M58892	M58893	✓	–	–	
M58160	M58161	M58162	M58163	M58164	✓	–	–	20
M58180	M58181	M58182	M58183	M58184	✓	–	–	
M57374	M57375	M57376	M57377	M57378	✓	–	–	21
M57363	M57364	M57365	M57366	M57367	✓	–	–	
M58199	M58200	M58201	M58202	M58203	✓	–	–	22
M58189	M58190	M58191	M58192	M58193	✓	–	–	



Above part numbers are for 1000 ft reels only. Add "RB" for reel-in-a-box. Add "B" for boxes.

For copper product cross reference see page 46.

For copper cable selection see page 58.



Electrical Characteristics:

Standards:

Exceeds ANSI/TIA-568-C.2 Category 6A, ICEA S-90-661-1997 Category 6, ISO/IEC 11801 ed 2.0 AMEND 1 CLASS EA & IEC 61156-5 ed 2.0 Horizontal Cable
UL Temperature Rating 90°C

Conductor DCR:

Plenum 7.5 Ω/100 m (22.8 Ω/Mft) max
Riser 7.9 Ω/100 m (24.0 Ω/Mft) max

DCR Unbalance:

2% max (Conductor-Conductor)
4% max (Pair-Pair)

Mutual Capacitance:

56 pF/m nom

Capacitance Unbalance Pair/Ground:

90 pF/100 m max

Characteristic Impedance:

105 Ω ± 15% (0.772-2 MHz)
100 Ω ± 10% (>2-500 MHz)

Input Impedance:

100 Ω ± 15% (1-100 MHz)
100 Ω ± 22% (>100-200 MHz)
100 Ω ± 32% (>200-500 MHz)

Propagation Delay:

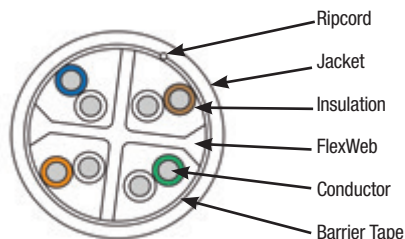
534 + 36/√f ns/100 m max

Delta Delay (Skew):

45 ns/100 m max

Nominal Velocity of Propagation (NVP):

Plenum 69%
Riser 65%



Category 6A UTP GigaLAN 10® Small Diameter

Tested to 750 MHz

Incorporates FlexWeb™ technology, and a unique barrier tape technology that improves all cable-to-cable ANEXT performance parameters while delivering a compact 6A design. With a finished diameter of 0.265" GigaLAN 10® Small Diameter is one of the smallest and most flexible Category 6A cables available today. As always, Mohawk goes a step further to provide value. GigaLAN 10® Small Diameter is sweep tested to 750 MHz – with verified stability.

Features:

- 25-Year Warranty*
- Sweep tested to 750 MHz for performance beyond 500 MHz – with verified stability
- Supports component compliant connectivity and full 100 m channel lengths
- Application – 10GBASE-T IEEE 802.3an; fully backwards compatible for 1000BASE-T, 100BASE-T and 10BASE-T applications. Supports 10G WiFi Access Points, PoE and PoE Plus
- Power Sum Alien Crosstalk – Fully component compliant

* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M59155 Riser	4-pair 23 AWG UTP	Thermoplastic	White PVC .273	6.93	38	57	CMR
M59145 Plenum	4-pair 23 AWG UTP	FEP	White ThermoPlen® .265	6.73	43	64	CMP

*Plenum rated Thermoplastic. For pair colors see chart A on page 52.

Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M59155	Green	M59160
Blue	M59156	Red	M59161
Pink	M59157	Orange	M59162
Yellow	M59158	Black	M59163
Gray	M59159	Violet	M59164

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M59145	Green	M59150
Blue	M59146	Red	M59151
Pink	M59147	Orange	M59152
Yellow	M59148	Black	M59153
Gray	M59149	Violet	M59154

Custom colors available; please call (800) 422-9961

FREQ (MHz)	Insertion Loss (dB/100 m)	NEXT (dB/100 m)	PS-NEXT (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)	Prop Delay (ns/100 m)	Alien Crosstalk	
								PS-ANEXT (dB/100 m)	PS-AACRF (dB/100 m)
	max	min	min	min	min	min	max	min	min
1.0	2.1	75.3	73.3	71.8	68.8	20.0	570.0	74.5	74.5
4.0	3.8	66.3	64.3	59.8	56.8	23.0	552.0	74.5	73.7
10.0	5.9	60.3	58.3	51.8	48.8	25.0	545.4	74.5	65.7
16.0	7.5	57.2	55.2	47.7	44.7	25.0	543.0	74.5	61.6
20.0	8.4	55.8	53.8	45.8	42.8	25.0	542.0	74.5	59.7
31.25	10.5	52.9	50.9	41.9	38.9	23.6	540.4	74.5	55.8
62.5	14.9	48.4	46.4	35.9	32.9	21.5	538.6	73.1	49.8
100.0	19.0	45.3	43.3	31.8	28.8	20.1	537.6	70.0	45.7
250.0	30.8	39.3	37.3	23.8	20.8	17.3	536.5	64.0	37.7
350.0	36.9	37.1	35.1	20.9	17.9	16.3	536.1	61.8	34.8
500.0	44.8	34.8	32.8	17.8	14.8	15.2	535.6	59.5	31.7
600.0	49.5	33.6	31.6	16.2	13.2	14.7	-	58.3	30.1
750.0	56.0	32.2	30.2	14.3	11.3	14.0	-	56.9	28.2

Values above 500 MHz are for engineering information only.



Category 6A UTP GigaLAN 10®

Tested to 750 MHz

GigaLAN 10® incorporates FlexWeb Plus™ technology, a unique cross web incorporating additional fins at the end of the Y axes. FlexWeb Plus, coupled with the mini fluting internal to the jacket, improves all cable-to-cable ANEXT performance parameters while delivering a compact 6A design.

Features:

- 25-Year Warranty*
- Sweep tested to 750 MHz for performance beyond 500 MHz – with verified stability
- Supports component compliant connectivity
- Application – Support for 10GBASE-T IEEE 802.3an; fully backwards compatible for 1000BASE-T, 100BASE-T and 10BASE-T applications.
- Power Sum Alien Crosstalk – Fully component compliant

* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M58651 Riser	4-pair 23 AWG UTP	Thermoplastic	White PVC		40	60	CMR
			.309	7.85			
M58647 Plenum	4-pair 23 AWG UTP	FEP	White ThermoPlen®*		47	70	CMP
			.309	7.85			

*Plenum rated Thermoplastic. For pair colors see chart A on page 52.

Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58651	Green	M58689
Blue	M58650	Red	M58690
Pink	M58688	Orange	M58691
Yellow	M58652	Black	M58692
Gray	M58653	Violet	M58693

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58647	Green	M58683
Blue	M58646	Red	M58684
Pink	M58682	Orange	M58685
Yellow	M58648	Black	M58686
Gray	M58649	Violet	M58687

Custom colors available; please call (800) 422-9961

FREQ (MHz)	Insertion Loss (dB/100 m)	NEXT (dB/100 m)	PS-NEXT (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)	Prop Delay (ns/100 m)	Alien Crosstalk	
	max	min	min	min	min	min	max	PS-ANEXT (dB/100 m)	PS-AACRF (dB/100 m)
								min	min
1.0	2.0	75.3	73.3	70.8	68.8	20.0	570.0	67.0	67.0
4.0	3.7	66.3	64.3	58.8	56.8	24.2	552.0	67.0	66.2
10.0	5.9	60.3	58.3	50.8	48.8	27.0	545.4	67.0	58.2
16.0	7.4	57.2	55.2	46.7	44.7	27.0	543.0	67.0	54.1
20.0	8.3	55.8	53.8	44.8	42.8	27.0	542.0	67.0	52.2
31.25	10.4	52.9	50.9	40.9	38.9	25.6	540.4	67.0	48.3
62.5	14.9	48.4	46.4	34.9	32.9	23.5	538.6	65.6	42.3
100.0	19.0	45.3	43.3	30.8	28.8	22.1	537.6	62.5	38.2
250.0	31.0	39.3	37.3	22.8	20.8	19.3	536.3	56.5	30.2
350.0	37.2	37.1	35.1	19.9	17.9	18.3	535.9	54.3	27.3
500.0	45.3	34.8	32.8	16.8	14.8	17.2	535.6	52.0	24.2
600.0	50.1	33.6	31.6	-	-	16.7	-	-	-
750.0	56.8	32.2	30.2	-	-	16.0	-	-	-

Values above 500 MHz are for engineering information only.



Electrical Characteristics:

Standards:

Exceeds ANSI/TIA-568-C.2 Category 6A, ICEA S-90-661-1997 Category 6, ISO/IEC 11801 ed 2.0 AMEND 1 CLASS EA & IEC 61156-5 ed 2.0 Horizontal Cable

Conductor DCR:

9.38 Ω/100 m (28.6 Ω/Mft) max

DCR Unbalance:

4% max

Mutual Capacitance:

46 pF/m nom

Capacitance Unbalance Pair/Ground:

33 pF/100 m max

Characteristic Impedance:

100 Ω ± 7% (10-500 MHz)

Input Impedance:

100 Ω ± 10% (1-100 MHz)
100 Ω ± 15% (>100-350 MHz)
100 Ω ± 22% (>350 MHz)

Propagation Delay:

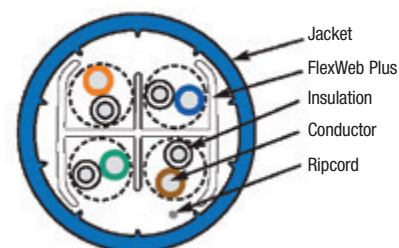
534 + 36/√f ns/100 m max

Delta Delay (Skew):

45 ns/100 m max

Nominal Velocity of Propagation (NVP):

Plenum 72%
Riser 68%



Verified to ANSI/TIA-568-C.2



Safety listed to NEC (NFPA 70)



Electrical Characteristics:

Standards:

Exceeds ANSI/TIA-568-C.2 Category 6, ICEA S-90-661-1997 Category 6, ISO/IEC 11801:2002 Category 6 & IEC 61156-5 Category 6 Horizontal Cable

Conductor DCR:

8.3 Ω /100 m (25.3 Ω /Mft) max

DCR Unbalance:

5% max

Mutual Capacitance:

46 pF/m nom

Capacitance Unbalance Pair/Ground:

33 pF/100 m max

Characteristic Impedance:

100 $\Omega \pm 7\%$ (10-250 MHz)

Input Impedance:

100 $\Omega \pm 12\%$ (1-100 MHz)

100 $\Omega \pm 15\%$ (>100-250 MHz)

Propagation Delay:

534 + 36/ $\sqrt{f}$ ns/100 m max

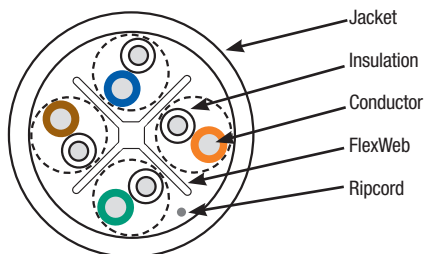
Delta Delay (Skew):

45 ns/100 m max (10-250 MHz)

Nominal Velocity of Propagation (NVP):

Plenum 72%

Riser 68%



Category 6E UTP GigaLAN®

Tested to 750 MHz

GigaLAN® with FlexWeb® pair isolation is one of the highest performing unshielded twisted pair (UTP) cables available today. ETL verified to ANSI/TIA-568-C.2 Category 6 and Mohawk's GigaLAN specification.

Features:

- 25-Year Warranty*
- Sweep tested to 750 MHz – with verified stability
- 34% increase power at 100 MHz and 50% increase at 250 MHz than Category 6 limits due to lower insertion loss
- 7 dB NEXT and PS-NEXT improvement versus Category 6 limits due to improved pair isolation

* Warranty available with MAC program.

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M57418 Riser	4-pair 23 AWG UTP	Thermoplastic	White PVC		33	49	CMR
			.255	6.48			
M57413 Plenum	4-pair 23 AWG UTP	Dual Insulation FEP on all 4-pairs	White ThermoPlen®*		37	55	CMP
			.255	6.48			

*Plenum rated Thermoplastic. For pair colors see chart A on page 52.

Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M57418	Green	M57421
Blue	M57419	Red	M57621
Pink	M57867	Orange	M57868
Yellow	M57420	Black	M57869
Gray	M57422	Violet	M57870

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M57413	Green	M57416
Blue	M57414	Red	M57620
Pink	M57750	Orange	M57861
Yellow	M57415	Black	M57866
Gray	M57417	Violet	M57860

Custom colors available; please call (800) 422-9961

FREQ (MHz)	Insertion Loss (dB/100 m)		NEXT (dB/100 m)		ACR (dB/100 m)	PS-NEXT (dB/100 m)		PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	RL (dB)	DELAY (ns/100 m)
	avg	max	avg	min	min	avg	min	min	min	min	min	max
1.0	1.8	1.9	91	81.3	79.4	84	79.3	77.4	74.8	72.8	20.0	570
4.0	3.3	3.5	82	72.3	68.8	75	70.3	66.8	62.8	60.8	23.0	552
10.0	5.2	5.5	76	66.3	60.8	69	64.3	58.8	54.8	52.8	25.0	545
16.0	6.7	7.0	73	63.2	56.2	66	61.2	54.2	50.7	48.7	25.0	543
20.0	7.4	7.8	72	61.8	54.0	65	59.8	52.0	48.8	46.8	25.0	542
31.25	9.3	9.8	69	58.9	49.1	62	56.9	47.1	44.9	42.9	24.3	540
62.5	13.4	14.1	64	54.4	40.3	57	52.4	38.3	38.9	36.9	22.2	539
100.0	17.1	18.0	61	51.3	33.3	54	49.3	31.3	34.8	32.8	20.8	538
250.0	28.1	29.6	55	45.3	15.8	48	43.3	13.8	26.8	24.8	18.0	536
350.0	33.8	35.6	53	43.1	7.5	46	41.1	5.5	23.9	21.9	17.0	536
500.0	41.4	43.6	51	40.8	-	44	38.8	-	20.8	18.8	15.9	536
600.0	46.0	48.4	50	39.6	-	43	37.6	-	-	-	12.7	-
750.0	52.3	55.0	48	38.2	-	41	36.2	-	-	-	12.0	-

Values above 250 MHz are for engineering information only



Category 6 UTP 6 LAN™

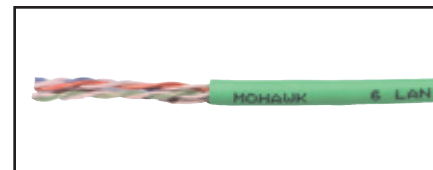
Tested to 550 MHz

6 LAN with an improved design featuring a reduced OD is an entry grade Category 6 unshielded twisted pair (UTP) cable. ETL verified to ANSI/TIA-568-C.2 Category 6 and Mohawk's 6 LAN specification.

Features:

- 25-Year Warranty*
- Sweep tested to 550 MHz – with verified stability
- 22.5 dB min PS-ACR at 100 MHz

* Warranty available with MAC program.



Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M58291 Riser	4-pair 23 AWG UTP	Thermoplastic	White PVC		24	36	CMR
			.220	5.59			
M58280 Plenum	4-pair 23 AWG UTP	Dual Insulation FEP on all 4-pairs	White ThermoPlen®*		27	40	CMP
			.220	5.59			

*Plenum rated Thermoplastic. For pair colors see chart A on page 52.

Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58291	Green	M58296
Blue	M58292	Red	M58297
Pink	M58293	Orange	M58298
Yellow	M58294	Black	M58299
Gray	M58295	Violet	M58300

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58280	Green	M58286
Blue	M58281	Red	M58287
Pink	M58282	Orange	M58288
Yellow	M58283	Black	M58289
Gray	M58285	Violet	M58290

Custom colors available; please call (800) 422-9961

FREQ (MHz)	Insertion Loss (dB/100 m)		NEXT (dB/100 m)		ACR (dB/100 m)	PS-NEXT (dB/100 m)		PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	RL (dB)
	avg	max	avg	min	min	avg	min	min	min	min	min
1.0	1.9	2.0	80	74.3	72.3	75	72.3	70.3	67.8	64.8	20.0
4.0	3.6	3.8	71	65.3	61.5	66	63.3	59.5	55.8	52.8	23.0
10.0	5.7	6.0	65	59.3	53.3	60	57.3	51.3	47.8	44.8	25.0
16.0	7.3	7.6	62	56.2	48.6	57	54.2	46.6	43.7	40.7	25.0
20.0	8.1	8.5	61	54.8	46.3	56	52.8	44.3	41.8	38.8	25.0
31.25	10.2	10.7	58	51.9	41.2	53	49.9	39.2	37.9	34.9	23.6
62.5	14.8	15.4	53	47.4	32.0	48	45.4	30.0	31.9	28.9	21.5
100.0	19.0	19.8	50	44.3	24.5	45	42.3	22.5	27.8	24.8	20.1
250.0	31.5	32.8	44	38.3	5.5	39	36.3	3.5	19.8	16.8	17.3
300.0	35.0	36.4	43	37.1	0.7	38	35.1	-	18.3	15.3	16.8
500.0	47.0	48.9	40	33.8	-	35	31.8	-	13.8	10.8	15.2
550.0	49.7	51.8	39	33.2	-	34	31.2	-	-	-	14.9

Values above 250 MHz are for engineering information only.

For shielded version, please see page 20.

Electrical Characteristics:

Standards:

Meets ANSI/TIA-568-C.2 Category 6, ICEA S-90-661-1997 Category 6 & ISO/IEC 11801:2002 Category 6 Horizontal Cable

Conductor DCR:

9.38 Ω/100 m (28.6 Ω/Mft) max

DCR Unbalance:

5% max

Mutual Capacitance:

46 pF/m nom

Capacitance Unbalance Pair/Ground:

66 pF/100 m max

Characteristic Impedance:

100 Ω ± 15% (1-250 MHz)

Input Impedance:

100 Ω ± 15% (1-100 MHz)
100 Ω ± 20% (>100-200 MHz)
100 Ω ± 25% (>200 MHz)

Propagation Delay:

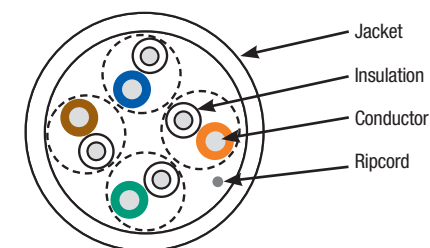
534 + 36/√f ns/100 m max

Delta Delay (Skew):

45 ns/100 m max

Nominal Velocity of Propagation (NVP):

Plenum 72%
Riser 68%



Verified to ANSI/TIA-568-C.2



Safety listed to NEC (NFPA 70)



Category 5e UTP 5e LAN®

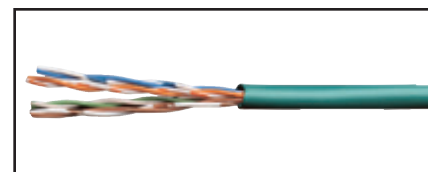
Tested to 200 MHz

5e LAN is an enhanced Category 5e grade unshielded twisted pair (UTP) cable. ETL verified to ANSI/TIA-568-C.2 Category 5e and Mohawk's 5e LAN specification.

Features:

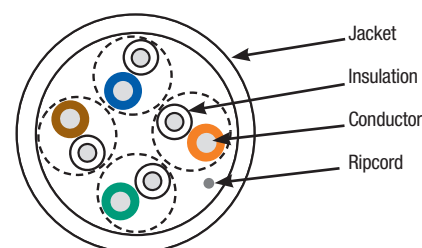
- 25-Year Warranty*
- Sweep tested to 200 MHz – with verified stability
- 13.3 dB min ACR @ 100 MHz
- .45 ns/m max skew – tightly controlled propagation delay

* Warranty available with MAC program.



Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M57554 Riser	4-pair 24 AWG UTP	Thermoplastic	White PVC		20	30	CMR
			.190	4.83			
M57547 Plenum	4-pair 24 AWG UTP	Dual Insulation FEP on all 4-pairs	White ThermoPlen®*		22	33	CMP
			.190	4.83			

*Plenum rated Thermoplastic. For pair colors see chart A on page 52.



Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M57554	Green	M57557
Blue	M57553	Red	M58008
Pink	M57555	Orange	M58009
Yellow	M57556	Black	M58010
Gray	M57552	Violet	M58007

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M57547	Green	M57551
Blue	M57546	Red	M57887
Pink	M57548	Orange	M57924
Yellow	M57550	Black	M57936
Gray	M57545	Violet	M57761

Custom colors available; please call (800) 422-9961

FREQ (MHz)	Insertion Loss			NEXT (dB/100 m)		ACR (dB/100 m)	PS-NEXT (dB/100 m)		PS-ACR (dB/100 m)	ELFEXT (dB/100 m)	PS-ELFEXT (dB/100 m)	RL (dB)
	(dB/100 m)		(dB/mft)	avg	min	min	avg	min	min	min	min	min
	avg	max	max									
1.0	1.8	2.0	6.3	77	65.3	63.3	68	62.3	60.3	63.8	60.8	20.0
4.0	3.8	4.1	13	68	56.3	52.2	57	53.3	49.2	51.7	48.7	23.0
10.0	6.0	6.5	20	62	50.3	43.8	52	47.3	40.8	43.8	40.8	25.0
20.0	8.6	9.3	28	58	45.8	36.5	48	42.8	33.5	37.7	34.7	25.0
31.25	10.9	11.7	36	56	42.9	31.2	46	39.9	28.2	33.9	30.9	23.6
62.5	15.8	17.0	52	52	38.4	21.4	42	35.4	18.4	27.8	24.8	21.5
100.0	20.5	22.0	67	48	35.3	13.3	38	32.3	10.3	23.8	20.8	20.1
200.0	30.2	32.4	99	43	30.8	-	33	27.8	-	17.8	14.8	18.0

Values above 100 MHz are for engineering information only.

For shielded version see page 22.



Verified to ANSI/TIA-568-C.2



Safety listed to NEC (NFPA 70)

Category 6A F/UTP XGO™

Tested to 500 MHz

Electrical Characteristics:

Conductor DCR:

9.38 Ω /100 m (28.6 Ω /Mft) max

DCR Unbalance:

3% max

Mutual Capacitance:

46 pF/m nom

Capacitance Unbalance Pair/Ground:

90 pF/100 m max

Characteristic Impedance:

100 $\Omega \pm 10\%$ (10-550 MHz)

Input Impedance:

100 $\Omega \pm 15\%$ (1-100 MHz)

100 $\Omega \pm 18\%$ (>100-250 MHz)

100 $\Omega \pm 32\%$ (>250 MHz)

Propagation Delay:

534 + 36/ $\sqrt{f}$ ns/100 m max

Propagation Delay (SKEW):

45 ns/100 m max

Nominal Velocity of Propagation (NVP):

Plenum 70%

Riser 66%

Mohawk's XGO F/UTP 6 is a robust, high performance data cable that is designed, manufactured and tested to exceed ANSI/TIA-568-C.2 performance standards. It is independently tested by Underwriters Laboratory (UL), a Nationally Recognized Test Laboratory (NRTL) and verified to ANSI/TIA-568-C.2 Category 6A.

Mohawk's patented XGO design incorporates our Flexweb® core separator technology to reduce the effects of internal crosstalk. The foil shield with drain wire provide a cost-effective solution to blocking ANEXT, EMI and RFI in extreme environments.

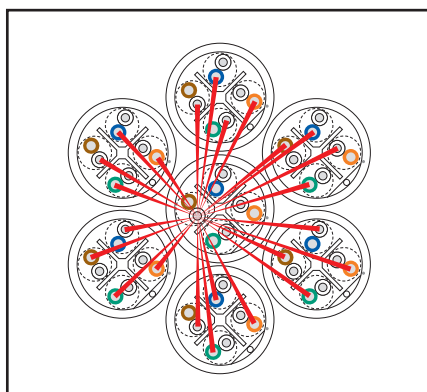
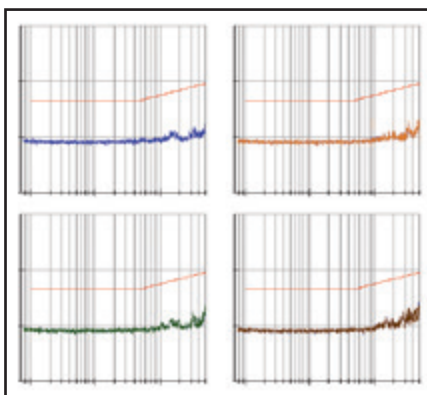


Figure 1

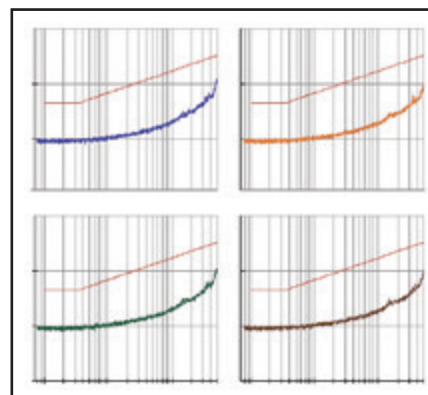


Power Sum Alien NEXT

Features:

- ETL component compliant cable to ANSI/TIA-568-C.2 Category 6A
- 25-Year Warranty*
- Sweep tested to 500 MHz – with verified stability
- Supports any component compliant 6A connectivity
- Application – Support for 10GBASE-T IEEE 802.3an; fully backwards compatible for 1000BASE-T, 100BASE-T, and 10BASE-T applications
- Power Sum Alien Crosstalk – Power Sum Alien Crosstalk measures the impact of many aggressors on one victim pair. It is the sum of unwanted signal coupling of crosstalk noise from the external cabling pairs into a victim pair of a cable. In the illustration (see Figure 1), a bundle of 7 cables with 6 cables around a center cable is depicted. What is being measured is the noise coupling from the pairs in the outer ring of cables (aggressor pairs) to the pairs in the center cable (victim pair). Each pair of the aggressor cables contributes noise to each of the pairs in the victim cable. The total impact on the victim is determined using a power summation equation.

* Warranty available with MAC program.



Power Sum Alien ACRF



Category 6A F/UTP XGO™ (Cont.)

Tested to 750 MHz

Mohawk Part No.	Cable Type	Dielectric Type	Jacket Type Diameter		Weight		Listings
			Inch	mm	lbs/M'	kg/km	
M58817 Riser	4-pair 23 AWG F/UTP	Thermoplastic	White PVC .303 7.7		45	67	CMR
M58782 Plenum	4-pair 23 AWG F/UTP	FEP	White ThermoPlen®* .290 7.37		48	71	CMP

*Plenum rated Thermoplastic. For pair colors, see Chart A Page 52.

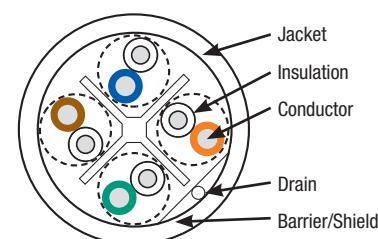
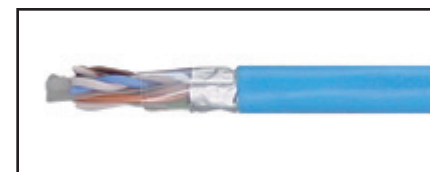
Jacket Colors for 4-pair Riser

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58817	Green	M58897
Blue	M58816	Red	M58898
Pink	M58896	Orange	M58899
Yellow	M58894	Black	M58900
Gray	M58895	Violet	M58901

Jacket Colors for 4-pair Plenum

Jacket Color	Mohawk #	Jacket Color	Mohawk #
White	M58782	Green	M58889
Blue	M58781	Red	M58890
Pink	M58888	Orange	M58891
Yellow	M58886	Black	M58892
Gray	M58887	Violet	M58893

Custom colors available; please call (800) 422-9961



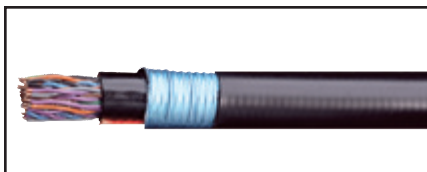
FREQ (MHz)	Insertion Loss (dB/100 m)	NEXT (dB/100 m)	PS-NEXT (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)	Prop Delay (ns/100 m)	Alien Crosstalk	
	max	min	min	min	min	min	max	PS-ANEXT (dB/100 m)	PS-AACRF (dB/100 m)
1.0	2.1	74.3	72.3	67.8	64.8	20.0	570.0	67.0	67.0
4.0	3.8	65.3	63.3	55.8	52.8	23.0	552.0	67.0	66.2
8.0	5.3	60.8	58.8	49.7	46.7	24.5	546.7	67.0	60.1
10.0	5.9	59.3	57.3	47.8	44.8	25.0	545.4	67.0	58.2
16.0	7.5	56.2	54.2	43.7	40.7	25.0	543.0	67.0	54.1
20.0	8.4	54.8	52.8	41.8	38.8	25.0	542.0	67.0	52.2
25.0	9.4	53.3	51.3	39.8	36.8	24.3	541.2	67.0	50.2
31.25	10.5	51.9	49.9	37.9	34.9	23.6	540.4	67.0	48.3
62.5	15.0	47.4	45.4	31.9	28.9	21.5	538.6	65.6	42.3
100.0	19.1	44.3	42.3	27.8	24.8	20.1	537.6	62.5	38.2
155.0	24.1	41.4	39.4	24.0	21.0	18.8	536.9	59.6	34.4
200.0	27.6	39.8	37.8	21.8	18.8	18.0	536.5	58.0	32.2
250.0	31.1	38.3	36.3	19.8	16.8	17.3	536.3	56.5	30.2
300.0	34.3	37.1	35.1	18.3	15.3	16.8	536.1	55.3	28.7
350.0	37.2	36.1	34.1	16.9	13.9	16.3	535.9	54.3	27.3
400.0	40.1	35.3	33.3	15.8	12.8	15.9	535.8	53.5	26.2
500.0	45.3	33.8	31.8	13.8	10.8	15.2	535.6	52.0	24.2

Grounding Tip (or Practice)

It is imperative when installing any high performance data cable, such as Mohawk's XGO F/UTP cable, that the shield MUST be grounded properly to ensure its effectiveness. If a shield is not properly grounded, it acts like an antenna and captures emanating ANEXT, EMI and RFI noise, coupling it to the cable pairs. XGO F/UTP is constructed with a drain wire which provides an easy installation solution for grounding the shield. Shielded cable should only be grounded at one end to eliminate potential ground loops. This grounding normally occurs on the closet side of the installation.

Special Applications LAN-Trak OSP

Outside Plant Cable



LAN-Trak OSP delivers TIA/EIA-568-C.2 Category 5, 5e, 5E or 6 electrical performance in an outside plant cable, because even small amounts of moisture or water in the cable will degrade the electrical performance of a Category cable. These cables are designed for exposure to the elements. Jacketed with black UV-resistant polyethylene, they employ a craft-friendly semi-dry flooding material that cleans easily from the cabled core.

Traditional petroleum-based gels such as “icky-pick” result in hard-to-clean and time-consuming cable prep time. This thixotropic gel has a dry, soft texture that is dermally safe and cleans easily with citrus-based cleaners. The result is faster cable prep time, and quicker clean-ups.

The cables allow you to extend your current network to outdoor satellite structures such as temporary classrooms or trailers in a campus environment. They are also well suited for runs under concrete slabs and in other wet locations.

Lan-Trak cables are offered in both unshielded (UTP) and the more robust corrugated aluminum tape cables. Also, the NEC may require a Category 5, 5e, or 6 rated protection device.

As with all horizontal cables, run length is limited to 90 m (295 ft) per ANSI/TIA-568-C.2 for Category cable operation.

Mohawk Part No.	Cable Type	Jacket Diameter		Weight		Min Bend Radius	
		Inch	mm	lbs/M'	kg/km	Inch	mm

LAN-Trak OSP Category 6

M57622	4-pair 24 AWG Duct/Aerial Lashed	.251	6.38	30	45	2.5	64
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LAN-Trak OSP Category 5E

M57561	4-pair 24 AWG Duct/Aerial Lashed	.226	5.74	25	37	2.25	57
M57562	4-pair 24 AWG Suitable for Burial (Corrugated Aluminum)	.400	10.16	64	95	6.0	152

LAN-Trak OSP Category 5e

M58790	4-pair 24 AWG Duct/Aerial Lashed	.231	5.87	26	39	2.30	58
M58527	25-pair 24 AWG Suitable for Burial (Corrugated Aluminum)	.730	18.54	317	472	11.00	280

LAN-Trak OSP Category 5

M57041	4-pair 24 AWG Duct/Aerial Lashed	.226	5.74	25	37	2.30	58
M57042	4-pair 24 AWG Suitable for Burial (Corrugated Aluminum)	.380	9.65	63	94	5.70	145
M57656	25-pair 24 AWG Suitable for Burial (Corrugated Aluminum)	.730	18.54	317	472	11.00	280

For 4-pair colors see chart A; for 25-pair colors see chart D on page 52.