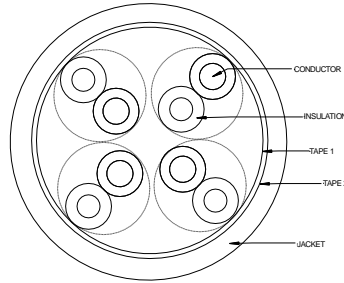


HUB-Link[®]

Category 6 UTP



1. Construction:

- 1.1. Conductors: 23 AWG Solid Bare Copper
- 1.2. Insulation: Cross-Linked Polyolefin 0.043" Nominal Diameter
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled To Form a Round Core
- 1.5. Tape 1: Aramid Paper
- 1.6. Tape 2: Flame Retardant Woven Fabric
- 1.7. Jacket: UV Resistant LSZH 0.297" Nominal Diameter

1.8. Jacket Print:

COMTRAN HUB-Link[®] CAT 6 23 AWG CMG-ST1 C(UL)US CL3-ST1 (UL) FT4 WET VERIFIED TO ANSI/TIA-568.2-D CAT 6 (01-12345) 000002

(01-12345) = Traceability Code
XXXXXX = Sequential Footage Every Two Feet

2. Physical Characteristics:

- 2.1. Nominal Cable Weight: 48.0 lbs./1,000 ft.
- 2.2. Installation Temperature Rating: 0°C to +60°C
- 2.3. Operation Temperature Rating: -40°C to +90°C
- 2.4. Constructed with materials suitable for exposure to outside elements including wet locations.
- 2.5. Cable suitable for burial in a conduit.

3. Compliance:

- 3.1. ICEA S-116-732
- 3.2. UL Subject 444 Communications Cables
- 3.3. UL Subject 13 Power Limited Circuit Cable
- 3.4. C(UL)US Listed type CMG-ST1
- 3.5. UL Listed Type CL3-ST1
- 3.6. UL 1685, FT-4 Vertical Flame
- 3.7. IEEE 1202
- 3.8. NFPA 70 (NEC) Article 800
- 3.9. NFPA 130 2014 & 2017
- 3.10. NFPA 502
- 3.11. NES 713 for Toxicity Index < 2.0%
- 3.12. MIL-C-24643 Halogen Content < 0.2%
- 3.13. Acid gas content < 2.0%
- 3.14. ICEA T-33-655 (Smoke for Thermoplastic Type II jackets)
- 3.15. NEMA 63.1
- 3.16. California State Fire Marshal
- 3.17. RoHS Compliant

4. Category Electrical Performance:

- 4.1. Voltage Rating: 300V
- 4.2. Max. DC Resistance: 9.38Ω/100m
- 4.3. Max DC Resistance Unbalance: 5.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m
- 4.6. Verified to ANSI/TIA-568.2-D

TITLE:		DESCRIPTION			COMTRAN		COMTRAN Innovative Systems. Engineered Solutions.		
HUB-Link[®] CAT6 UTP		HUB-Link [®] 4 Pair 23 AWG Solid Bare Copper Category 6			330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		MARBON A Marmon Wire & Cable/Berkshire Hathaway Company		
Rev	Date	Detail	Eng.	App.					
16	12/16/21	Update print and performance	PB	BD					
15	11/2/21	Update LS to ST1 and TIA to new standard	PB	BD	ECN 021-049				
14	10/5/21	Updating print legned	KB	PB					
13	11/27/19	Update to operating temperature	PB	KB					
12	5/13/19	Rebranding	KB	PB					
11	01/16/19	Create Family Specification from 35977 – add jacket colors	PB	WC					

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HUB-Link® Category 6 UTP

Category 6 Electricals

(Per ANSI/TIA 568-C.2)



Char. Impedance		Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq.	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz.)	(+/-15)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	100	20.0	2.0	74.3	72.3	67.8	64.8
4	100	23.0	3.8	65.3	63.3	55.8	52.8
8	100	24.5	5.3	60.8	58.8	49.7	46.7
10	100	25.0	6.0	59.3	57.3	47.8	44.8
16	100	25.0	7.6	56.2	54.2	43.7	40.7
20	100	25.0	8.5	54.8	52.8	41.8	38.8
25	100	24.3	9.5	53.3	51.3	39.8	36.8
31.25	100	23.6	10.7	51.9	49.9	37.9	34.9
62.5	100	21.5	15.4	47.4	45.4	31.9	28.9
100	100	20.1	19.8	44.3	42.3	27.8	24.8
125	100	19.4	22.4	42.9	40.9	25.8	22.8
155	100	18.8	25.2	41.4	39.4	23.9	20.9
175	100	18.4	26.9	40.7	38.7	22.9	19.9
200	100	18.0	29.0	39.8	37.8	21.8	18.8
250	100	17.3	32.8	38.3	36.3	19.8	16.8

Category Color Code

Color Code	
Pair 1	Blue-White/Blue
Pair 2	Orange-White/Orange
Pair 3	Green-White/Green
Pair 4	Brown-White/Brown

Part Numbers

Part#	Color
35977	Gray
36536	Black
36537	White
36538	Blue

TITLE:		DESCRIPTION		COMTRAN 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 COMTRAN Innovative Systems. Engineered Solutions.  A Marmon Wire & Cable/Berkshire Hathaway Company
HUB-Link® CAT6 UTP		HUB-Link® 4 Pair 23 AWG Solid Bare Copper Category 6				
Rev	Date	Detail		Eng.	App.	
16	12/16/21	Update print and performance		PB	BD	
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