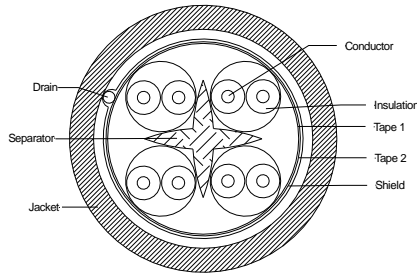


HUB-Link®

Category 6 F/UTP



1. Construction:

- 1.1. Conductors: 23 AWG Solid Bare Copper
- 1.2. Insulation: Cross-Linked Polyolefin, 0.045" 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 Tape
- 1.6. Tape 2: Flame Retardant Woven Fabric
- 1.7. Shield: Aluminum/Polyester
- 1.8. Drain: 24 AWG Solid Tinned Copper
- 1.9. Jacket: UV Resistant LSZH 0.345" Nominal Diameter

1.10. **Jacket Print:**

COMTRAN HUB-Link® CAT 6 SHIELDED 23 AWG CMG-LS C(UL)US CL3-ST1 (UL) FT4 WET ETL VERIFIED TO ANSI/TIA-568-C.2 CAT 6 (01-12345) 000002

(01-12345) = Traceability Code

XXXXXX = Sequential Footage Every Two Feet

2. Physical Characteristics:

- 2.1. Installation Temperature Rating: 0°C to +60°C
- 2.2. Operation Temperature Rating: -40°C to +90°C
- 2.3. Constructed with materials suitable for exposure to outside elements including wet locations.
- 2.4. Cable suitable for burial in a conduit.

3. Compliance:

- 3.1. ETL Verified to ANSI/TIA-568-C.2
- 3.2. ICEA S-116-732
- 3.3. UL Subject 444 Communications Cables
- 3.4. UL Subject 13 Power-Limited Circuit Cables
- 3.5. c(UL)us Listed type CMG-LS
- 3.6. (UL) Listed type CL3-ST1
- 3.7. UL 1685, FT-4 Vertical Flame
- 3.8. IEEE 1202
- 3.9. NFPA 70 (NEC) Article 800
- 3.10. NFPA 130
- 3.11. NFPA 502
- 3.12. NES 713 for Toxicity Index < 2.0%
- 3.13. MIL-C-24643 Halogen Content < 0.2%
- 3.14. Acid gas content < 2.0%
- 3.15. ICEA T-33-655 (Smoke for Thermoplastic Type II jackets)
- 3.16. NEMA 63.1
- 3.17. California State Fire Marshal Approved
- 3.18. 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

TITLE:	DESCRIPTION				
DS36264	4 Pair 22 AWG Solid Bare Copper Category 6 Shielded HUB-Link®	Comtran 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 COMTRAN <small>Innovative Systems. Engineered Solutions.</small> <small>A Marmon Wire & Cable/Berkshire Hathaway Company</small>	
Rev	Date	Detail	Eng.	App.	
5	09/10/19	Rebranding	PB	WC	
4	10/18/18	Update Compliance section	DG	WC	
3	10/11/18	Update print legend and physical characteristics notes	DG	WC	
2	5/20/16	Added IEEE 1202	BL	RN	CD0618
1	02/26/16	Initial Release	PAB	RN	

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HUB-Link®

Category 6 F/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
300	100	16.8	36.4	37.1	35.1	18.3	15.3
350	100	16.3	39.8	36.1	34.1	16.9	13.9
400	100	15.9	43.0	35.3	33.3	15.8	12.8
450	100	15.5	46.0	34.5	32.5	14.7	11.7
500	100	15.2	48.9	33.8	31.8	13.8	10.8

Values above 250 MHz are for engineering information only

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

TITLE:		DESCRIPTION		Comtran 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 COMTRAN <small>Innovative Systems. Engineered Solutions.</small>  <small>A Marmon Wire & Cable/Berkshire Hathaway Company</small>	
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