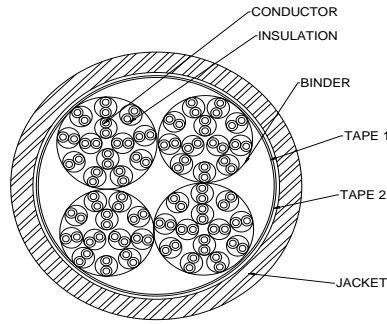


HUB-Link®

22 AWG 50-Pair LSZH Communication Cable



1. Construction:

- 1.1. Conductors: 22 AWG Solid Bare Copper 0.025" Nominal Diameter
- 1.2. Insulation: Cross-Linked Polyolefin 0.044" Nominal Diameter
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: Cable (2) Groups of (12) Pairs and (2) Groups of (13) Pairs with Color Coded Binders
- 1.5. Final Assembly: Cable (4) Groups
- 1.6. Tape 1: Flame Barrier Tape, 25% Nominal Overlap
- 1.7. Tape 2: Woven Flame Barrier Tape, 25% Nominal Overlap
- 1.8. Jacket: Low Smoke Zero Halogen 0.868" Nominal Diameter

1.9. Jacket Print:

COMTRAN HUB-LINK® LSZH P/N 35962 50/PR (100/C) 22 AWG CMG-LS C(UL)US CL3-ST1/FPL-ST1 (UL) FT4 WET 90°C --- RoHS MM/YY (01-12345) 000002

(01-12345) = Traceability Code

000002 = Sequential Footage Markings Every Two Feet

2. Compliance:

- 2.1. C(UL)US Listed Type CMG-LS
- 2.2. (UL) CL3-ST1, FPL-ST1
- 2.3. UL Subject 444 Communications Cables
- 2.4. UL Subject 13 Power Limited Circuit Cables
- 2.5. UL Subject 1424 Power Limited Fire Alarm Circuits
- 2.6. NFPA 130-2014 & 2017
- 2.7. IEEE 1202/FT4
- 2.8. UL 1685
- 2.9. For Use in Wet Locations per UL 13 & 1424
- 2.10. California State Fire Marshal Approved
- 2.11. RoHS Compliant



3. Electrical Characteristics:

- 3.1. Voltage Rating: 300V
- 3.2. Impedance: 100Ω +/- 15% @ 1 MHz

| Frequency (MHz) | Insertion Loss | PSNEXT |
|--------------------|--------------------|--------------------|
| | (dB/100m) (Max) | (dB/100m) (Min) |
| 1 | 2.56 | 41.3 |
| 4 | 5.59 | 32.2 |
| 8 | 8.47 | 27.7 |
| 10 | 9.72 | 26.3 |
| 16 | 13.09 | 23.2 |

4. Physical Characteristics:

- 4.1. Operation Temperature Rating: -20°C to +90°C
- 4.2. Maximum Pull Tension: 512 Lbs./Ft.
- 4.3. Nominal Cable Weight: 352 lbs./1,000 ft.

| TITLE: | | DESCRIPTION | COMTRAN | |  COMTRAN <small>Innovative Systems. Engineered Solutions.</small>  <small>A Marmon Wire & Cable/Berkshire Hathaway Company</small> |
|----------------|----------|---|---|------|---|
| DS35962 | | 22 AWG 50-Pair LSZH Communication Cable | 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839 | | |
| Rev | Date | Detail | Eng. | App. | |
| 6 | 01/14/20 | Change LS to ST1 per UL add Pull Tension, standardize primaries | PB | WC | ECN 20-005 |
| 5 | 01/22/19 | Rebranding, update print | PB | WC | Q14808 |
| 4 | 08/31/16 | Update Format, Add Wet to Print, Add Electrical Characteristics | PB | RN | |
| 3 | 3/20/15 | New Format | BAL | RN | |
| 2 | 4/7/14 | Text | PA | BS | |

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HUB-Link®

22 AWG 50-Pair LSZH Communication Cable

25 Pair Color Code

| Pair No. | Tip | Ring | Pair No. | Tip | Ring |
|----------|-------|--------|----------|--------|--------|
| 1 | White | Blue | 14 | Black | Brown |
| 2 | White | Orange | 15 | Black | Gray |
| 3 | White | Green | 16 | Yellow | Blue |
| 4 | White | Brown | 17 | Yellow | Orange |
| 5 | White | Gray | 18 | Yellow | Green |
| 6 | Red | Blue | 19 | Yellow | Brown |
| 7 | Red | Orange | 20 | Yellow | Gray |
| 8 | Red | Green | 21 | Violet | Blue |
| 9 | Red | Brown | 22 | Violet | Orange |
| 10 | Red | Gray | 23 | Violet | Green |
| 11 | Black | Blue | 24 | Violet | Brown |
| 12 | Black | Orange | 25 | Violet | Gray |
| 13 | Black | Green | | | |

| Binder Group Color Binder | Pair Count |
|---------------------------|------------|
| White/Blue | 001 – 013 |
| White/Blue | 014 – 025 |
| White/Orange | 026 - 038 |
| White/Orange | 039 - 050 |

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