



**Belden Quote No. 1043259**

04/04/13 Rev. 00

**Detailed Specifications & Technical Data**

- I. Description: Non-Plenum 4 Pair Shielded Patch:  
26 AWG stranded (7x34) tinned copper conductors, 4 twisted pairs, polyolefin insulation, polyester separator, Beldfoil® shield (100% coverage), drain wire, no lead flame retardant PVC. Sequential marking at two foot intervals.
- II. Applications:  
Category 5e, 1000Base-T (Gigabit Ethernet), 100Base-T (Fast Ethernet) 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, C(UL)US or C(ETL)US Type CMG FT4, RJ-45 Compatible.
- III. Physical Characteristics:  
 Operating Temperature: -20°C to +60°C (-4°F to +140°F)  
 Storage Temperature: -20°C to +75°C (-4°F to +167°F)  
 Installation Temperature: -0°C to +60°C (+32°F to +140°F)  
 Shield: Aluminum/polyester tape, 25% overlap, 100% coverage.  
 Jacket Material/Dia.: No lead flame retardant PVC / 0.231" Nominal  
 Max. Pulling Tension: 12.5 lbf (55 N) Maximum  
 Conductor type: 7 X 34 AWG stranded TC  
 Nom. Weight/1000 ft.: 28.0 lbs.  
 Min. Bend Radius (no load): 1.0"  
 Applicable Specifications: ANSI/TIA/EIA-568-C.2 Category 5e Patch  
 TIA/EIA 568-A Category 5 Patch  
 ICEA 661, Category 5 Patch  
 ISO/IEC 11801 Category 5 Patch  
 NEMA WC-63.1 Category 5 Patch  
  
 Flame Rating and Test: C(UL)US OR C(ETL)US TYPE CMG FT4  
 Performance Verification: Verified (UL) or ETL Cat 5E Patch Cable
- IV. Color Code:  
 Pair #1: White/Blue & Blue  
 Pair #2: White/Orange & Orange  
 Pair #3: White/Green & Green  
 Pair #4: White/Brown & Brown
- V. Electrical Characteristics:  
 Nom. Capacitance @ 1 Khz: 14 Pf/Ft.  
 Nom. Velocity Of Propagation: 68%  
 Nom. Conductor D.C.R. @ 20C 44.4 Ω /1000 Ft  
 Characteristic Impedance 100 Ω ± 15% (1-100 MHz)  
 Input Impedance 100 Ω ± 15% (1-100 MHz)

	Delay Skew (ns/100 m)	Delay @ 100 MHz (ns/100 m)	Capacitance Unbalance (pF/100 m)	DCR @ 20°C (Ohms/100 m)	DCR Unbalance (%)
Maximum	30	510	132.0	14.57	3.0

Frequency (MHz)	Min. RL (dB)	Min. PSACR (dB/100 m)	Min. PSELFEXT (dB/100 m)	Min. NEXT (dB/100 m)
1.0	20.0	59.2	60.8	65.3
4.0	23.0	47.2	48.7	56.3
8.0	24.5	40.2	42.7	51.8
10.0	25.0	37.6	40.8	50.3
16.0	25.0	31.9	36.7	47.3
20.0	25.0	28.9	34.7	45.8
25.0	24.2	25.7	32.8	44.3
31.25	23.3	22.3	30.9	42.9
62.5	20.7	9.9	24.8	38.4
100	19.0	0.0	20.8	35.3
155	17.4	--	16.9	32.5
200	16.4	--	14.7	30.8

Frequency (MHz)	Min. PSNEXT (dB)	Typical PSNEXT (dB)	Max. Atten. (dB/100 m)	Typical Atten. (dB/100 m)
1.0	62.3	68	3.1	2.3
4.0	53.3	57	6.1	5.1
8.0	48.8	54	8.6	6.9
10.0	47.3	52	9.7	7.9
16.0	44.3	50	12.4	9.7
20.0	42.8	48	13.9	10.8
25.0	41.3	47	15.6	11.7
31.25	39.9	46	17.6	13.1
62.5	35.4	42	25.5	20.0
100	32.3	38	33.0	27.5
155	29.5	35	42.1	35.1
200	27.8	33	48.6	40.6

The Belden Division Office and Engineering Center are ISO 9001 certified facilities. Belden's U.S. domestic manufacturing plants are ISO 9002 certified.

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