

Customer Specification - 38891-008

5E HI-NET 350 CMP

CUSTOMER

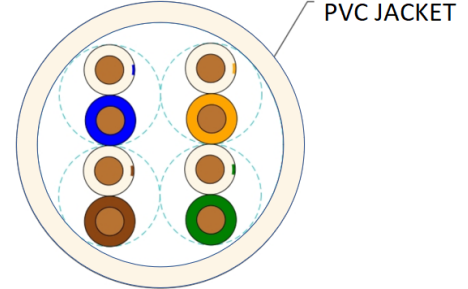
PROTERIAL CABLE AMERICA INC.

CUSTOMER P/N

38891-008

CONSTRUCTION

CONDUCTOR: 24 AWG SOLID
INSULATION: THERMOPLASTIC - COLOR CODED PER TABLE
 0.038" NOM OD (0.97 mm)
PAIRS: COMPONENTS ARE TWISTED INTO PAIRS WITH
 VARYING LAYS TO MINIMIZE CROSSTALK.
CABLE: THE FOUR TWISTED PAIRS ARE CABLED
 TOGETHER.
RIPCORD
JACKET: PVC - WHT 0.190" NOM OD (4.8mm)
MARKING: CABLE IS PRINTED WITH THE FOLLOWING LEGEND: 2 Feet Intervals



Pair	Color	Pair	Color
1	WHT/BLU-BLU	3	WHT/GRN-GRN
2	WHT/ORN-ORN	4	WHT/BRN-BRN

**PROTERIAL CABLE AMERICA - 350 ENHANCED CATEGORY 5e --- 4PR/24
 c(UL)us CMP - VERIFIED (UL) CAT 5e ANSI/TIA 568.2-D - ZZ/YY (XXXXX) - Mx
 - R# - NNNN FEET**

WHERE: ZZ = MONTH OF MFG, YY = YEAR OF MFG, XXXXX = JOB NUMBER, x = RESPOOL MACHINE #, # = MASTER REEL NUMBER, NNNN = SEQUENTIAL FOOTAGE MARKERS

APPROVALS/RATINGS

AGENCY APPROVALS: UL CMP

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE: 100 ± 15 Ohm (1.0-100 MHz)
MAXIMUM CONDUCTOR RESISTANCE: 9.38 Ohm/100 m @ 20°C
MAXIMUM RESISTANCE UNBALANCE: 5%
MAXIMUM MUTUAL CAPACITANCE: 5.6 nF/100 m @ 1 kHz
MAXIMUM CAPACITANCE UNBALANCE: 330 pF/100 m
MAXIMUM DELAY SKEW: 25 ns/100 m

Frequency (MHz)	Insert Loss Max (dB/100m)	Next Loss Min (dB/100m)	Next Loss Min PS (dB/100m)	ACR Min (dB/100m)	ACR Min PS (dB/100m)	ELFEXT Min (dB/100m)	ELFEXT Min PS (dB/100m)	Return Loss Min (dB/100m)	Delay Max (ns/100m)
0.772	1.8	73.0	70.0	71.2	68.2	72.0	69.0	-----	-----
1.0	2.0	71.3	68.3	69.3	66.3	69.8	66.8	20.0	570
4.0	4.1	62.3	59.3	58.2	55.2	57.7	54.7	23.0	552
8.0	5.8	57.8	54.8	52.0	49.0	51.7	48.7	24.5	547
10.0	6.5	56.3	53.3	49.8	46.8	49.8	46.8	25.0	545
16.0	8.2	53.3	50.3	45.0	42.0	45.7	42.7	25.0	543
20.0	9.3	51.8	48.8	42.5	39.5	43.7	40.7	25.0	542
25.0	10.4	50.3	47.3	39.9	36.9	41.8	38.8	24.3	541
31.25	11.7	48.9	45.9	37.2	34.2	39.9	36.9	23.6	540
62.5	17.0	44.4	41.4	27.4	24.4	33.8	30.8	21.5	539
100.0	22.0	41.3	38.3	19.3	16.3	29.8	26.8	20.1	538
155.0*	28.1	38.5	35.5	---	---	25.9	22.9	18.8	537
200.0*	32.4	36.8	33.8	---	---	23.7	20.7	18.0	537
250.0*	36.9	35.3	32.3	---	---	21.8	18.8	17.3	536
300.0*	41.0	34.2	31.2	---	---	20.2	17.2	16.8	536
350.0*	44.9	33.2	30.2	---	---	18.9	15.9	16.3	536
400.0*	48.5	32.3	29.3	---	---	17.7	14.7	15.9	536

*Any frequencies beyond TIA and ISO requirements are for information only.

THE IMPEDANCE VALUES ABOVE REFLECT ACTUAL INPUT IMPEDANCE DATA. THE HI-NET FAMILY DOES NOT UTILIZE CURVE SMOOTHING OR FITTING WHEN MEASURING AND REPORTING IMPEDANCE DATA. THE HI-NET SERIES MEETS INTERNATIONAL REQUIREMENTS FOR NON-

Catalog Number: 38891-0008-XXX-PCA-950-R-01000-4562-00
 Reference Number: P3B00881485WH2
 RFQ#: 60103
 Cable Weight: 19.9 lbs/kft
 Copper Weight: 10.1 lbs/kft

Revision	Date	Engineer
A	5/4/2022	M. Beliveau
Customer		
Approved By		Date

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FITTED INPUT IMPEDANCE. THIS CABLE EXCEEDS THE REQUIREMENTS OF ANSI/TIA 568.2-D FOR CATEGORY 5e AND IS SWEPT TESTED THROUGH 400 MHz. PROTERIAL CABLE AMERICA HI-NET 350 ENHANCED CATEGORY 5e CABLES PROVIDE A WORST CASE HEADROOM OF +6dB OVER CURRENT TIA AND ISO STANDARDS FOR NEXT LOSS, PSNEXT LOSS, AND +4dB FOR ELFEXT, AND PSELFEXT.

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