

350™

Product Highlights

- Tested from 1 to 400 MHz
- Offers guaranteed headroom to TIA Category 5e and ISO Category 5 requirements

TIA PARAMETER	GUARANTEED WORST CASE HEADROOM
NEXT loss	+6 dB
PSNEXT loss	+6 dB
ELFEXT	+6 dB
PSELFEXT	+6 dB
Return loss	N/A
Delay skew	+20 ns

Packaging

- 1,000 foot (305m) reels
- 1,000 foot (305m) Reellex® (featuring reverse sequential numbering)
- 1,000 foot (305m) Reel-in-a-Box

Options

- CMP-50 rated cables available
- Available in 2-, 3-, 4- and 6-pair construction



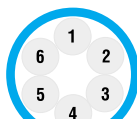
2-pair



3-pair



4-pair



6-pair

Diagram scale approx. 3:1

350™ (Riser)

(CMR, c(UL), CSA Type FT4)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT lbs/1000ft	kg/305m
		in.	mm		
38893-4	2	.165	4.18	13.0	5.9
38893-6	3	.174	4.42	17.0	7.7
38893-8	4	.193	4.90	22.0	10.0
38893-12	6	.240	6.10	30.0	13.6

Transmission Specifications

TIA/EIA-568-B.2 Category 5e Compliant

ISO/IEC 11801, 2nd ed. Category 5 Compliant

Freq. (MHz)	Ins. loss (dB/100 m)	NEXT loss (dB)	PSNEXT loss (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return loss (dB)
1	2.0	71.3	68.3	69.3	66.3	69.8	66.8	20.0
4	4.1	62.3	59.3	58.2	55.2	57.8	54.8	23.0
8	5.8	57.8	54.8	52.0	49.0	51.7	48.7	24.5
10	6.5	56.3	53.3	49.8	46.8	49.8	46.8	25.0
16	8.2	53.2	50.2	45.0	42.0	45.7	42.7	25.0
31.25	11.7	48.9	45.9	37.2	34.2	39.9	36.9	23.6
62.5	17.0	44.4	41.4	27.4	24.4	33.9	30.8	21.5
100	22.0	41.3	38.3	19.3	16.3	29.8	26.8	20.1
350*	44.9	33.1	30.1	-	-	18.9	15.9	16.3
400*	48.5	32.3	29.3	-	-	17.8	14.8	15.9

*Frequencies beyond the TIA and ISO requirements are for information only.

Hitachi 350 cables offer +6 dB of NEXT loss and PSNEXT loss margin over Category 5e requirements.



Category 5e

Enhanced UTP

UTP Copper

350™ (Plenum)

(CMP, c(UL) or CSA Type FT6)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
38891-4	2	.160	4.06	13.0	5.9
38891-6	3	.170	4.32	18.0	8.2
38891-8	4	.184	4.67	21.0	9.5
38891-12	6	.220	5.59	31.0	14.1

Electrical Characteristics

Input Impedance	100 ± 15 (0.772 - 100 MHz)
Maximum conductor resistance	9.38 /100 meters @ 20°C
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Nominal velocity of propagation (NVP)	riser, 68% plenum, 70%
Maximum delay skew	25 ns/100 meters

Features



DIELECTRIC MATERIALS

Primary Insulation
Overall Jacket

RISER

Polyolefin

PLENUM

FEP
Low-smoke, flame-retardant thermoplastic

