

Cat 5e Multi-Pair

Product Highlights

- RoHS compliant
- Tested from 1 to 100 MHz
- UL Verified Category 5e
- Power sum compliance ensures minimum signal corruption due to alien cross-talk

Packaging

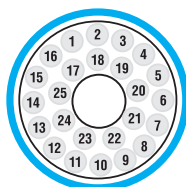
- 1,000 foot (305m) reels

Options

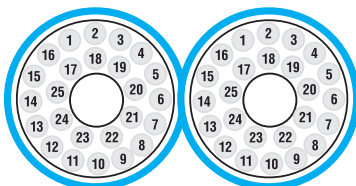
- Consult factory for 50-pair design construction and availability

Applications

- Including:
 - 1000 BASE-T Gigabit Ethernet
 - 1000 Mbps ATM
 - 622 Mbps ATM
 - 100 BASE-T Ethernet
 - 10 BASE-T
 - Broadband Video



25-pair



50-pair

Diagram scale approx. 3:1

Category 5e Power Sum Multi-pair (Plenum)

(c(UL)us Listed Type CMP, CSA Type FT6)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D. in.	mm	CABLE WEIGHT lbs/1000ft	kg/305m
30203-50	25	.48	12.2	141.0	64.0

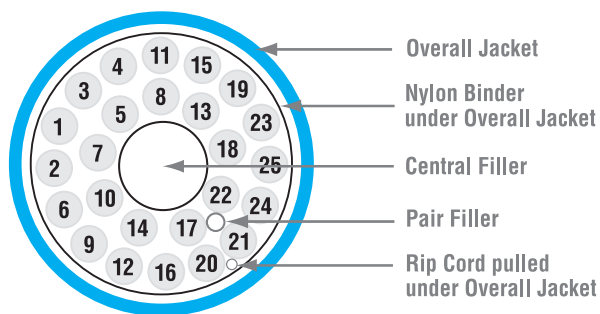
Category 5e Power Sum Multi-pair (Riser)

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

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D. in.	mm	CABLE WEIGHT lbs/1000ft	kg/305m
30093-50	25	.49	12.4	130.0	59.1
30172-100	50	.49 x 1.03	12.4 x 26.1	248.0	112.7

Features

Primary
Insulation



DIELECTRIC
MATERIALS

Primary Insulation
Overall Jacket
Central Filler
Pair Filler

RISER

Polyolefin
Flame-retardant thermoplastic
Flame-retardant thermoplastic
Flame-retardant thermoplastic

PLENUM

FEP
FEP
Plenum-rated polymer
Plenum-rated polymer

HCM reserves the right to revise any specifications.

Power Sum Multi-pair Category 5e

UTP
Copper

Electrical Characteristics

Input impedance	100 ± 15Ω (0.772 to 100 MHz)
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	68%, riser 70%, plenum

Transmission Specifications

TIA/EIA-568-C.2 Category 5e Verified

ISO/IEC 11801, 2nd ed. Class D Compliant

Freq. (MHz)	Ins. loss (dB/100 m)	NEXT Loss	PSNEXT Loss	ACR	PSACR	ACRF	PSACRF	Return loss
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.8	48.8	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.9	24.9	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1

All values are dB/100m.

