

## Product Highlights

- Tested from 1 to 100 MHz
- Component compliant to TIA Category 5e and ISO Category 5 cable requirements

## Packaging

- 1,000 foot (305m) reels

## Options

- Available in 2-, 3- and 4-pair constructions



Diagram scale approx. 3:1

## Category 5e ScTP (Riser)

(CMR, CSA Type FT4)

| HITACHI PART NO. | NO. OF PAIRS | CALCULATED CABLE O.D. |      | CABLE WEIGHT lbs/1000ft | kg/305m |
|------------------|--------------|-----------------------|------|-------------------------|---------|
|                  |              | in.                   | mm   |                         |         |
| 39092-4          | 2            | .229                  | 5.82 | 17.0                    | 7.7     |
| 39092-6          | 3            | .238                  | 6.05 | 21.0                    | 9.6     |
| 39092-8          | 4            | .255                  | 6.48 | 25.0                    | 11.4    |

## Transmission Specifications

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

ISO/IEC 11801 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                  | 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             |

# Category 5e ScTP

## Category 5e ScTP (Plenum)

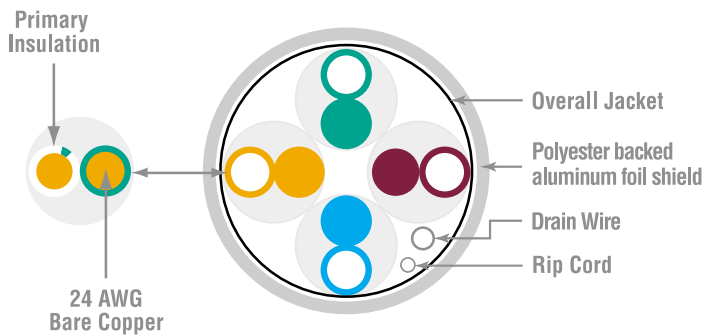
(CMP, CSA Type FT6)

| HITACHI<br>PART NO. | NO. OF<br>PAIRS | CALCULATED<br>CABLE O.D. |      | CABLE<br>WEIGHT |         |
|---------------------|-----------------|--------------------------|------|-----------------|---------|
|                     |                 | in.                      | mm   | lbs/1000ft      | kg/305m |
| 38653-4             | 2               | .229                     | 5.82 | 20.4            | 9.3     |
| 38653-6             | 3               | .238                     | 6.05 | 25.2            | 11.4    |
| 38653-8             | 4               | .255                     | 6.48 | 30.6            | 13.9    |

## Electrical Characteristics

|                                       |                             |
|---------------------------------------|-----------------------------|
| Input impedance                       | 100 ± 15 (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                 |

## Features



### DIELECTRIC MATERIALS

Primary Insulation  
Overall Jacket

### RISER

Polyolefin

Flame-retardant thermoplastic

### PLENUM

FEP

Low-smoke, flame-retardant thermoplastic

