

## Premium (Plenum)

(CMP, CSA Type FT6)

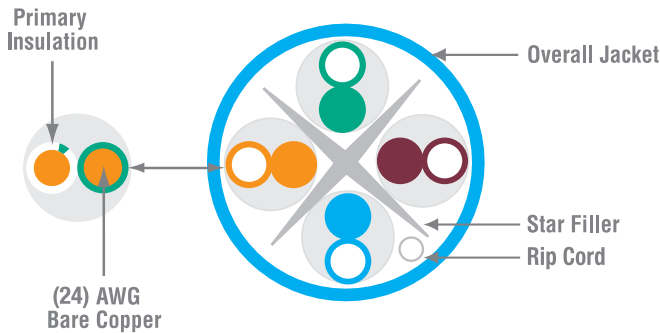
HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
30183-8	4	.235	5.96	28.0	12.7

## Premium (Riser)

(CMR, CSA Type FT4)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
30212-8	4	.245	6.22	27.6	12.5

## Features



### DIELECTRIC MATERIALS

Primary Insulation  
Overall Jacket  
Star Filler

### RISER

Polyolefin  
Flame-retardant thermoplastic  
Flame-retardant thermoplastic

### PLENUM

High Performance Plenum-rated polymer  
Low-smoke, flame-retardant thermoplastic  
Plenum-rated polymer



# Premium

## Product Highlights

- RoHS Compliant
- Tested from 1 to 660 MHz
- Offers guaranteed headroom to TIA and ISO Category 6 requirements

TIA PARAMETER	GUARANTEED WORST CASE HEADROOM
NEXT loss	+4 dB
PSNEXT loss	+4 dB
ELFEXT	+6 dB
PSELFEXT	+6 dB

## Packaging

- 1,000 foot (305m) reels
- 1,000 foot (305m) Reelex® (featuring reverse sequential numbering)
- 1,000 foot (305m) reel-in-a-box

## Options

- CMP-50 rated cables available
- Available in a 4-pair construction



Diagram scale approx. 3:1

## Electrical Characteristics

Input Impedance	100 ± 15Ω (.772 to 250 MHz)
Maximum conductor resistance	9.38 Ω/100 meters @ 20°C
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	25 ns/100 meters
Nominal velocity of propagation (NVP)	riser, 68% plenum, 70%

## Transmission Specifications

TIA/EIA-568-B.2-1 Category 6 Compliant

ISO/IEC 11801, 2nd ed. Category 6 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	78.3	76.3	76.3	74.3	73.8	70.8	20.0
4	3.7	69.3	67.3	65.5	63.5	61.8	58.8	23.0
8	5.3	64.7	62.8	59.5	57.5	55.7	52.7	24.5
10	5.4	63.3	61.3	57.3	55.3	53.8	50.9	25.0
16	7.5	60.2	58.2	52.6	50.6	49.7	46.7	25.0
31.25	10.6	55.9	53.9	45.2	43.2	43.9	40.9	23.6
62.5	15.2	51.4	49.4	36.0	34.0	37.9	34.9	21.5
100	18.6	49.3	46.3	28.5	26.5	33.8	30.8	20.1
155	24.9	46.4	44.4	20.5	19.5	30.5	27.1	18.8
200	28.7	43.9	41.9	14.8	12.8	27.8	24.8	18.0
250	32.6	42.3	40.3	9.5	7.5	25.8	22.8	17.3
300*	36.1	41.1	40.1	-	-	23.3	20.5	16.8
350*	39.4	40.1	38.1	-	-	22.9	19.9	16.3
400*	42.5	39.5	37.1	-	-	21.1	19.4	15.9
500*	48.5	38.9	36.0	-	-	19.8	16.5	15.2
555*	51.5	37.1	35.1	-	-	18.9	15.9	14.9
660*	57.0	36.1	34.5	-	-	-	14.4	14.4

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

HCM reserves the right to revise any specifications.