Indoor

S/FTP

Copper

Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- Low Smoke Plenum construction
- Tested to 600 MHz
- Compliant to ISO 11801 Class F (Category 7) Requirements
- Conductor pairs are individually wrapped in foil
- Overall braid

Packaging

- 1,000 foot (305 m) reels
- Reverse sequential footage markings standard on each 1,000 foot package
- Unit/pallet: 12
  CMP Carton Weight (lbs): 60.4
  CMP Product Weight (lbs): 57.1
  *weight may vary, call for CMR information

Applications

- Including:
  HDBase-T A & B
  10 Gigabit Ethernet (IEEE 802.3an)
  5 Gigabit Ethernet (IEEE 802.3bz)
  2.5 Gigabit Ethernet (IEEE 802.3bz)
  Gigabit Ethernet (IEEE 802.3ab)
  100 Mbps Ethernet (IEEE 802.3u)
  1000 Mbps ATM
  622 Mbps ATM
  15W PoE (IEEE 802.3af)
  30W PoE+ (IEEE 802.3at)
  60W PoE++ (IEEE 802.3bt Type 3)
  100W PoE++ (IEEE 802.3bt Type 4)

Temp. Range

- Storage Temperature
  -40°C to +60°C
  (-40°F to +140°F)
- Installation Temperature
  0°C to +60°C
  (+32°F to +140°F)
- Operation Temperature
  Plenum
  -20°C to +105°C
  (-4°F to +221°F)
  Riser/Low Smoke HF
  -20°C to +75°C
  (-4°F to +167°F)

Category 7 S/FTP (Plenum)

c(UL)us Listed Type CMP (NFPA 262), CSA Type FT6

PART #	# OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		inches	mm	lbs/1000 ft	kg/305 m
30245-8-XXY	4	0.326	8.28	57.10	25.90

Category 7 S/FTP (Riser-Low Smoke Zero Halogen)

c(UL)us Listed Type CMR (UL 1666), CSA Type FT44

PART #	# OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		inches	mm	lbs/1000 ft	kg/305 m
30319-8-XXY	4	0.326	8.25	55.10	24.99

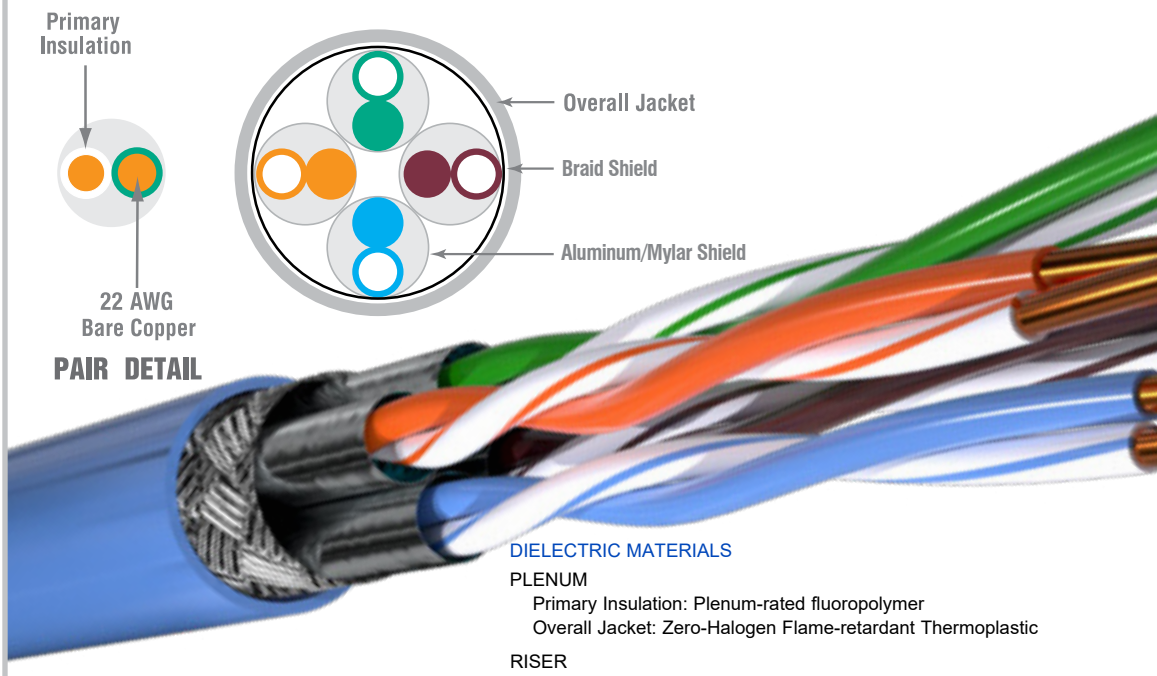
Building a Part Number

Base Part Number Ex.	No. of Conductors	Jacket Color	Reel Type
30245	8	XX	Y

Jacket Colors (XX):
Black (BK); Blue (BL); Brown (BR); Gray (GA); Green (GR); Red (RD); White (WH); Violet (VI); Yellow (YE)

Reel Type (Y):
Reels (3)

Features



DIELECTRIC MATERIALS

PLENUM
Primary Insulation: Plenum-rated fluoropolymer
Overall Jacket: Zero-Halogen Flame-retardant Thermoplastic

RISER
Primary Insulation: High-density Polyethylene
Overall Jacket: Zero-Halogen Flame-retardant Thermoplastic

Hitachi Cable America reserves the right to revise any specifications.

Cat 7 S/FTP

Transmission Specifications

ANSI/TIA-568.2-D IEC 61156-5, 2nd ed. Category 7 Compliant

	Ins. Loss	NEXT	PS NEXT	ACR	PSACR	ACRF	PSACRF	TCL	ELTCTL	Return Loss	CA (Type1)
Freq. (MHz)	Max	Min	Min	Cal. Min	Cal. Min	Min	Min	Min	Min	Min	Min
1	2.0	78.0	75.0	76.0	73.0	78.0	75.0	40.0	35.0	-	-
4	3.7	78.0	75.0	74.3	71.3	78.0	75.0	34.0	23.0	-	-
8	5.2	78.0	75.0	72.8	69.8	77.2	74.2	31.0	16.9	-	-
10	5.9	78.0	75.0	72.1	69.1	75.3	72.3	30.0	15.0	-	-
16	7.4	78.0	75.0	70.6	67.6	71.2	68.2	28.0	10.9	-	-
20	8.3	78.0	75.0	69.7	66.7	69.3	66.3	27.0	9.0	25.0	-
25	9.3	78.0	75.0	68.7	65.7	67.3	64.3	26.0	7.0	24.3	-
31.25	10.4	78.0	75.0	67.6	64.6	65.4	62.4	25.1	-	23.6	85.0
62.5	14.9	75.5	72.5	60.6	57.6	59.4	56.4	22.0	-	21.5	85.0
100	19.0	72.4	69.4	53.4	50.4	55.3	52.3	20.0	-	20.1	85.0
200	27.5	67.9	64.9	40.4	37.4	49.3	46.3	17.0	-	18.0	79.0
250	31.0	66.4	63.4	35.5	32.5	47.3	44.3	16.0	-	17.3	77.0
300	34.2	65.2	62.2	31.1	28.1	45.8	42.8	-	-	17.3	75.5
400	40.0	63.4	60.4	23.4	20.4	43.3	40.3	-	-	17.3	73.0
500	45.3	61.9	58.9	16.7	13.7	41.3	38.3	-	-	17.3	71.0
600	50.1	60.7	57.7	10.6	7.6	39.7	36.7	-	-	17.3	69.4
600	50.1	60.7	57.7	10.6	7.6	39.7	36.7	-	-	17.3	39.4

All values are dB/100m.

Photo is for representation purposes only.

Electrical Characteristics

Maximum Resistance Unbalance:	2% (Within Pairs), 4% (Between Pairs)
Maximum Capacitance Unbalance:	160 pF/100 meters
Maximum Delay Skew:	125 ns/100 meters
Nominal Velocity Of Propagation (Nvp):	82%
Voltage Rating:	300 Volts
LP Rating (UL) - CMP	0.9 Amps/conductor

Cable Ampacity Chart														
Bundle Size	1		2-7		8-19		20-37		38-61		62-91		92-192	
Cable Temp							75°C					90°C		
22 AWG	3.0	3.0	1.8	2.1	1.2	1.4	0.9	1.1	0.8	0.9	0.7	0.8	0.6	0.7

The table above is derived from the one approved by the National Fire Protection Agency and used in the National Electrical Code, NFPA-70. The complete table can be found in sections 725.144 and 800 Communication Circuits of the code. The table identifies the ampacity of each conductor (in amperes) in a 4-pair Class 2 or Class 3 data cable. Ambient temperature used for development of the table is 30°C (86° F) with all conductors in all cables carrying current. The table is based on 60°C (140°F), 75°C (167°F) and 90°C (194°F) rated cables. All cable temps are operational temp ratings. Cables with temp ratings above 90c would deliver additional power handling capacity.