PROTERIAL

Cat 7
S/FTP

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

TEMPERATURE 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**

  PLEMUM
  -20°C to +105°C
  (-4°F to +221°F)
- **RISER/LOW SMOKE HF**
  -20°C to +75°C
  (-4°F to +167°F)

APPLICATIONS

- 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)

PACKAGING

- 1,000 feet (305 m)
- Reverse sequential footage markings standard on each 1,000 foot package
- Unit/pallet: 12 Reels
  CMP Carton Weight (lbs): 60.4
  CMP Product Weight (lbs): 57.1

*weight may vary, call for CMR information

Cat 7 S/FTP Part Specifications

	Part Number	# of Pairs	Calculated Cable O.D.		Cable Weight		c(UL) us Listed Type
			inches	mm	lbs/1000ft	kg/305 m	
PLENUM	30245-8-XXY	4	0.326	8.28	57.10	25.90	CMP (NFPA 262), CSA Type FT6

	Part Number	# of Pairs	Calculated Cable O.D.		Cable Weight		c(UL) us Listed Type
			inches	mm	lbs/1000ft	kg/305 m	
RISER LSZH	30319-8-XXY	4	0.326	8.25	55.10	24.99	CMR (UL 1666), CSA Type FT4

Building a Part Number

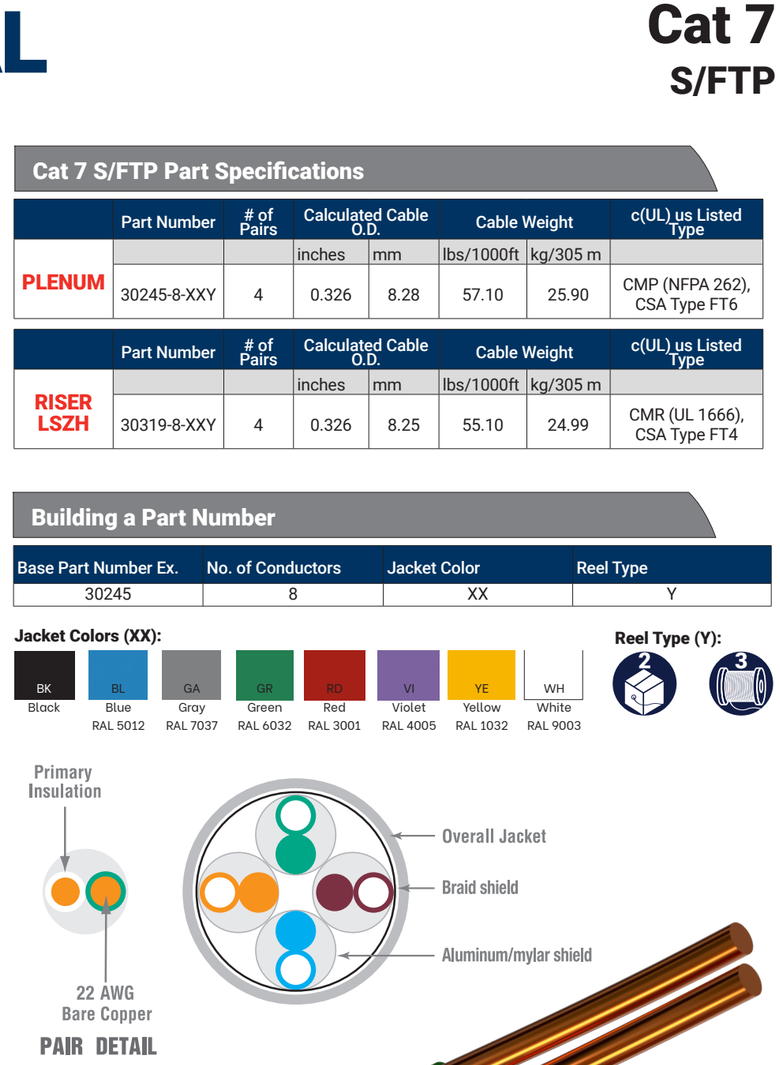
Base Part Number Ex.	No. of Conductors	Jacket Color	Reel Type
30245	8	XX	Y

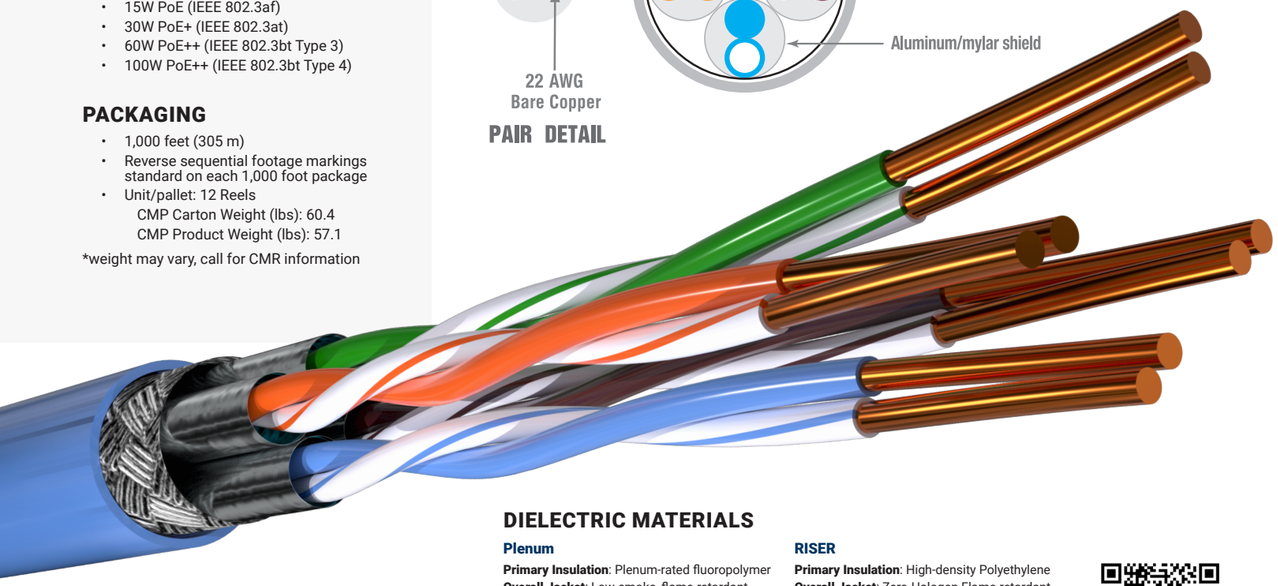
Jacket Colors (XX):

BK	BL	GA	GR	RD	VI	YE	WH
Black	Blue RAL 5012	Gray RAL 7037	Green RAL 6032	Red RAL 3001	Violet RAL 4005	Yellow RAL 1032	White RAL 9003

Reel Type (Y):

2 3





DIELECTRIC MATERIALS

Plenum

Primary Insulation: Plenum-rated fluoropolymer
Overall Jacket: Low-smoke, flame-retardant thermoplastic

RISER

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

PROTERIAL

Cat 7
S/FTP

Cat 7A S/FTP Transmission Specifications

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

Freq. (MHz)	Ins. Loss Max	NEXT Min	PS NEXT Min	ACR Cal. Min	PSACR Cal. Min	ACRF Min	PSACRF Min	TCL Min	ELTCTL Min	Return Loss Min	CA (Type1) 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

ELECTRICAL CHARACTERISTICS

All values are dB/100m.

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	75°C	90°C	75°C	90°C	75°C	90°C	75°C	90°C	75°C	90°C	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.

Photo is for representation purposes only.

Copper Premise

Proterial Cable America, Inc. is continuously improving the performance of our products and the accuracy of the information provided. Due to this, we reserve the right to modify, revise, correct, or change products without notice. Thank you for your understanding.

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