Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- Suitable for direct burial, lashed aerial, duct and underground conduit applications
- Cable core is filled with non-conductive, water-blocking gel
- Rugged black polyolefin jacket
- UV resistant jacket

Packaging

- 1,000 foot (305 m) reels
- Reverse sequential footage markings standard on each 1,000 foot package
- Unit/pallet: 12 Reels
  CMP Carton Weight (lbs): 43.63
  CMP Product Weight (lbs): 40.33
  *weight may vary

Applications

- Including:
  HDBase-T A & B (Cat 6)
  5 Gigabit Ethernet (IEEE 802.3bz)(Cat 6)
  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 +70°C
  (-40°F to +158°F)
- Installation Temperature
  -20°C to +70°C
  (-4°F to +158°F)
- Operation Temperature
  -40°C to +70°C
  (-40°F to +158°F)

Category 6 UTP Single Jacket

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
30180-8-XXY	4	0.270	6.858	34.65	15.72

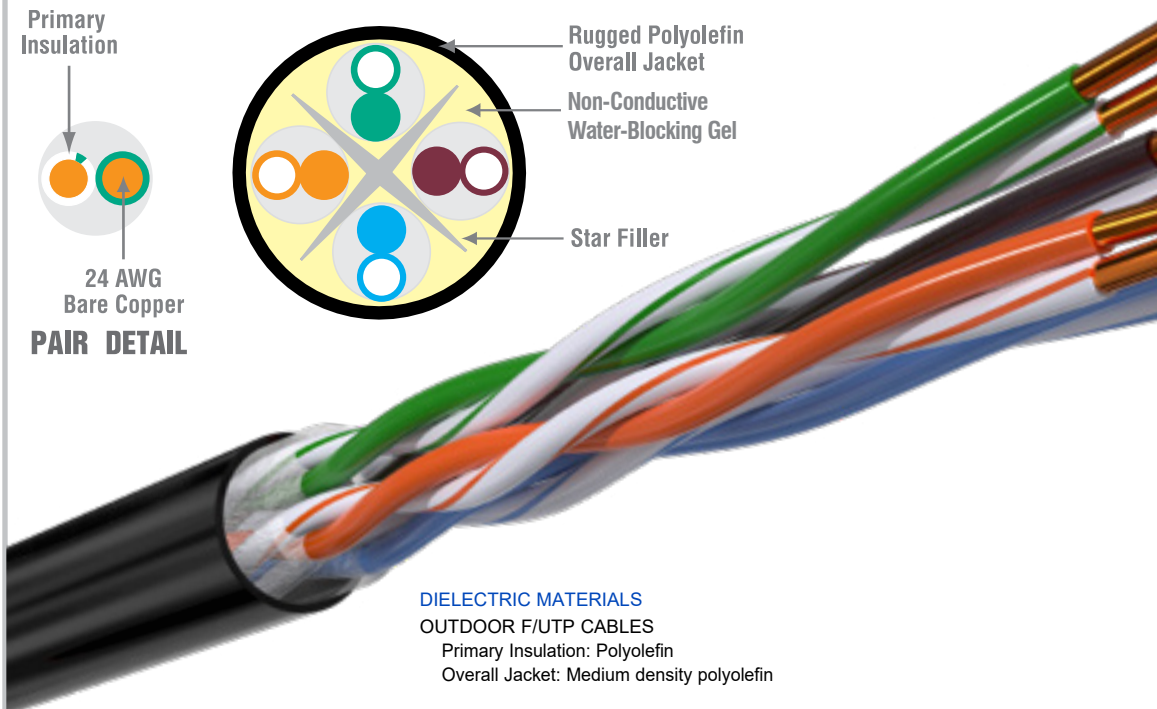
Building a Part Number

Base Part Number Ex.	No. of Conductors	Jacket Color	Reel Type
30180	8	XX	Y

Jacket Colors (XX):
Black (BK)

Reel Type (Y):
Reels (3)

Features



DIELECTRIC MATERIALS
OUTDOOR F/UTP CABLES
Primary Insulation: Polyolefin
Overall Jacket: Medium density polyolefin

Cat 6 OSP

Transmission Specifications

ANSI/TIA-568.2-D Category 6 Verified
ISO/IEC 11801, 2nd ed. Class E Compliant

	Ins. Loss		NEXT		PSNEXT		ACR		PSACR		ACRF		PSACRF		Return Loss	
Freq. (MHz)	Std.	Max.	Std.	Min.	Std.	Min.	Cal.	Min.	Cal.	Min.	Std.	Min.	Std.	Min.	Std.	Min.
1	2.0	2.0	74.3	74.3	72.3	72.3	72.3	72.3	70.3	70.3	67.8	67.8	64.8	64.8	20.0	20.0
4	3.8	3.8	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5	55.8	55.8	52.8	52.8	23.0	23.0
8	5.3	5.3	60.8	60.8	58.8	58.8	55.4	55.4	53.4	53.4	49.7	49.7	46.7	46.7	24.5	24.5
10	6.0	6.0	59.3	59.3	57.3	57.3	53.3	53.3	51.3	51.3	47.8	47.8	44.8	44.8	25.0	25.0
16	7.6	7.6	56.2	56.2	54.2	54.2	48.7	48.7	46.7	46.7	43.7	43.7	40.7	40.7	25.0	25.0
31.25	10.7	10.7	51.9	51.9	49.9	49.9	41.2	41.2	39.2	39.2	37.9	37.9	34.9	34.9	23.6	23.6
62.5	15.4	15.4	47.4	47.4	45.4	45.4	32.0	32.0	30.0	30.0	31.9	21.9	28.9	28.9	21.5	21.5
100	19.8	19.8	44.3	44.3	42.3	42.3	24.5	24.5	22.5	22.5	27.8	27.8	24.8	24.8	20.1	20.1
155	25.2	25.2	41.1	41.1	39.4	39.4	16.3	16.3	14.3	14.3	24.0	24.0	21.0	21.0	18.8	18.8
200	29.0	29.0	39.8	39.8	37.8	37.8	10.8	10.8	8.8	8.8	21.8	21.8	18.8	18.8	18.0	18.0
250	32.8	32.8	38.3	38.3	36.3	36.3	5.5	5.5	3.5	3.5	19.8	19.8	16..8	16.8	17.3	17.3
350*	-	39.8	-	36.1	-	34.1	-	-	-	-	-	16.9	-	13.9	-	16.3
555*	-	52.0	-	33.1	-	31.1	-	-	-	-	-	12.9	-	9.9	-	14.9

*Frequencies beyond the TIA and ISO requirements are for information only. All values are dB/100m.

Photo is for representation purposes only.

Electrical Characteristics

Input Impedence:	100 ± 15Ω (1.0 to 100 MHz) 100 ± 15Ω (101 to 250 MHz)
Maximum Resistance Unbalance:	5%
Maximum Capacitance Unbalance:	330 pF/100 meters
Maximum Delay Skew:	45 ns/100 meters
Nominal Velocity Of Propagation (Nvp):	67%
Voltage Rating:	300 Volts

Cable Ampacity Chart							
Bundle Size	1	2-7	8-19	20-37	38-61	62-91	92-192
Cable Temp	60°C	60°C	60°C	60°C	60°C	60°C	60°C
24 AWG	2.0	1.0	0.8	0.6	0.5	0.4	0.3

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.