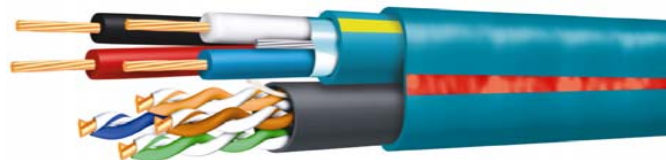


SIGNET™ CAT LOW CAP ON DATA PAIR

7/5/08 REV 1.0

18 AWG 1P Stranded BC + 22 AWG 1P Stranded BC Shielded (Data) +Category 5E UTP



PART NUMBER: 181PC24R-TR

DESCRIPTION: 18 AWG 1 PAIR STRANDED 7/26 BARE COPPER, PVC INSULATION; PLUS 22 AWG 1 PAIR STRANDED 7/30 BARE COPPER, LOW CAPACITANCE, DATA, ALUMINUM FOIL MYLAR SHIELD, 24 AWG 7/32 TINNED COPPER DRAIN, FOAM PE INSULATION; PLUS CATEGORY 5 E; NYLON RIPCORD, OVERALL PVC JACKET; UL CL3R/FT-4

ELEMENT 1: 1ST COMPONENT

PHYSICAL CHARACTERISTICS:

CONDUCTOR/PAIR COUNT: 2 CONDUCTORS, 1 PAIR
CONDUCTOR MATERIAL: BARE COPPER
GAUGE & STRANDING: 18 AWG 7/26
COLOR CODE: BLACK, RED
INSULATION MATERIAL: PVC
INSULATION THICKNESS: .010"

ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE: 59.05 OHMS
VELOCITY OF PROP.: 50.60%
NOM. CAPACITANCE BETWEEN CONDUCTORS OF PAIR @ 1 KHZ: 33.9 pF/FT
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 6.37 OHMS/1000 FT.

ELEMENT 1: 2ND COMPONENT

PHYSICAL CHARACTERISTICS:

CONDUCTOR/PAIR COUNT: 2 CONDUCTORS, 1 PAIR
CONDUCTOR MATERIAL: BARE COPPER
GAUGE & STRANDING: 22 AWG 7/30
COLOR CODE: BLUE, WHITE FOR LOW CAPACITANCE
INSULATION MATERIAL: FOAM PE
INSULATION THICKNESS: .022"
SHIELD: ALUM FOIL MYLAR, MYLAR OUT, FOIL IN
DRAIN: 24 AWG 7/32 TINNED COPPER

ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE: 95 OHMS
VELOCITY OF PROP.: 82%
NOM. CAPACITANCE BETWEEN CONDUCTORS OF PAIR @ 1 KHZ: 12.5 pF/FT
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 16.33 OHMS/1000 FT.

ELEMENT 1: OVERALL

PHYSICAL CHARACTERISTICS:

JACKET MATERIAL & THICKNESS: PVC
JACKET COLOR: TEAL WITH YELLOW STRIPE
OUTSIDE DIAMETER: .252"

ELEMENT 2: CAT 5e

PHYSICAL CHARACTERISTICS:

CONDUCTOR/PAIR COUNT: 8 CONDUCTORS, 4 PAIRS
CONDUCTOR MATERIAL: BARE COPPER

ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE: 100 OHM
MAX. DELAY SKEW: 45 ns/100M

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ELEMENT 2: CAT 5e CONT.

PHYSICAL CHARACTERISTICS CONT.:

GAUGE & STRANDING: 24 AWG SOLID
COLOR CODE: BLUE, BLUE/WHITE;GREEN, GREEN/WHITE;
 ORANGE,ORANGE/WHITE;BROWN, BROWN/WHITE
INSULATION MATERIAL: FLAME RETARDENT PE
INSULATION THICKNESS: .006"
RIPCORD: NYLON
JACKET MATERIAL & THICKNESS: PVC .022"
JACKET COLOR: WHITE OR GRAY
OUTSIDE DIAMETER: .206"

ELECTRICAL CHARACTERISTICS CONT.:

NOM. CAPACITANCE BETWEEN CONDUCTORS OF PAIR @ 1 KHZ: 330 pF/100M
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 28.6 OHMS/1000 FT/

Frequency (MHz)	Attenuation Max. (dB/100m)	NEXT Min. (dB)		ACR Min. (dB @ 100m)		PS-ELFEXT Min. (dB @ 100m)	SRL Min. (dB)
		WP	PS	WP	PS		
1.000	2.0	65.3	62.3	63.3	60.3	60.8	19.0
4.000	4.1	56.3	53.3	52.2	49.2	48.7	20.8
8.000	5.8	51.8	48.8	46.0	43.0	42.7	21.7
10.000	6.5	50.3	47.3	43.8	40.8	40.8	22.0
16.000	8.2	47.3	44.3	39.1	36.1	36.7	22.0
20.000	9.3	45.8	42.8	36.5	33.5	34.7	22.0
25.000	10.4	44.3	41.3	33.9	30.9	32.8	21.3
31.250	11.7	42.9	39.9	31.2	28.2	30.9	20.6
62.500	17.0	38.4	35.4	21.4	18.4	24.8	18.5
100.000	22.0	35.3	32.3	13.3	10.3	20.8	17.1

OVERALL:

JACKET MATERIAL & THICKNESS: PVC .030"
JACKET COLOR: TEAL WITH RED STRIPE
OUTSIDE DIAMETER: .524"
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
RIPCORD: NYLON
PACKAGING: REELS
SHIPPING WEIGHT: 84 LBS./1000 FT.

UL CRITERIA:

UL TYPE OR STYLE: CL3/FT-4

NOTES:

1. Semi-tubed jacket with glossy finish.
2. Footage markers printed every two feet.
3. While Signature Wire Corp. has made every reasonable effort to ensure the accuracy of these specifications, information contained herein may be subject to error and omission and to change without notice. Signature Wire Corp. provides these specifications on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied.