

CONTROLPLUS™
16 AWG 4C BC + CAT5E UTP 350MHZ

7/5/08 REV 1.0



PART NUMBER: 164+244R

DESCRIPTION: 16 AWG 4 CONDUCTOR 65/34 BARE COPPER, PVC INSULATION, BUNDLED WITH CAT5E UTP 350 MHZ, OVERALL PAPER SEPARATOR TAPE, PVC JACKET, . NYLON RIPCORD, (UL) CM/CL3

PHYSICAL CHARACTERISTICS 16/4C:

CONDUCTOR/PAIR COUNT: 4 CONDUCTOR
CONDUCTOR MATERIAL & DIA.: BARE COPPER STRANDED, .059"
GAUGE & STRANDING: 16 AWG 65/34
COLOR CODE: BLACK,RED,WHITE,GREEN
INSULATION MATERIAL & DIA.: POLYVINYL CHLORIDE .089" NOM.
INSULATION THICKNESS: .018"

ELECTRICAL CHARACTERISTICS 16/4C:

MAX. OPERATING VOLTAGE: 300 V RMS
MAX. CONTINUOUS CURRENT PER CONDUCTOR: 9.1A
NOM. CAPACITANCE: 48.4 pf/FT
NOM. IMPEDANCE: 23.62 OHMS
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 4.02 OHMS/1000'

PHYSICAL CHARACTERISTICS CAT5E 350 MHZ:

CONDUCTOR/PAIR COUNT: 4 TWISTED PAIRS
CONDUCTOR MATERIAL & DIA.: BARE COPPER SOLID,
GAUGE & STRANDING: 24 AWG
COLOR CODE: WHITE/BLUE STRIPE & BLUE
 WHITE/ORANGE STRIPE & ORANGE
 WHITE/GREEN STRIPE & GREEN
 WHITE/BROWN STRIPE & BROWN
INSULATION MATERIAL & DIA.: FLAME RETARDANT PE
INSULATION THICKNESS: .006"
JACKET MATERIAL & THICKNESS: PVC, .037"
JACKET COLOR: GRAY
OUTSIDE DIAMETER: .206" NOM.

ELECTRICAL CHARACTERISTICS CAT5E:

MAX. OPERATING VOLTAGE: 300 V RMS
NOM. CAPACITANCE: 15 pf/FT
NOM. VELOCITY OF PROPAGATION: 70%
NOM. IMPEDANCE: 100 ohms
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 28.6 OHMS/1000'
MAX. DELAY SKEW: 45 ns/100m

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Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	2.0	65.3	62.3	63.0	60.0	20.0	23.0
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

PHYSICAL CHARACTERISTICS OVERALL:

TEMPERATURE RATING: -20 TO +60 DEG. C
JACKET MATERIAL & THICKNESS: PVC, .037" NOM.
JACKET COLOR:
RIPCORD: NYLON
OUTSIDE DIAMETER: .388" NOM.
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
PACKAGING: REEL
SHIPPING WEIGHT: 83 LBS/1000'

UL CRITERIA:

UL TYPE OR STYLE: CL3 OR CM
 CEC C(UL) CM
FLAME RESISTANCE: UL1581 VERTICAL TRAY

NOTES:

1. Semi-tubed jacket with glossy finish.
2. StripEase™ jacket technology.
3. Footage markers printed every two feet.
4. 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.