

SPECTRUM HD® ADVANCED PLUS

05/26/2006 REV. 0

6 RG59 (25 AWG) SOLID BC

+ CATEGORY 5E



PART NUMBER: RB6SDS+CAT5E

DESCRIPTION: 6 RG59 25 AWG 1 CONDUCTOR SOLID BARE COPPER, FOAM HDPE DIELECTRIC, BONDED FOIL TAPE, 95% TC FRENCH BRAID SHIELD, BUNDLED WITH CAT5E, OVERALL PAPER TAPE, INDIVIDUAL AND OVERALL PVC JACKET. SWEPT TO 4.5GHz, UL/NEC: CM

PHYSICAL CHARACTERISTICS (EACH COAX):

TEMPERATURE RATING: -40 TO +75 DEG. C
CONDUCTOR MATERIAL & DIA.: 25 AWG SOLID BARE COPPER, .0179"
INSULATION MATERIAL & DIA.: FOAM HDPE, .074" NOM.
SHIELD TYPE & % COVERAGE: FOIL TAPE, 100%
TINNED COPPER FRENCH BRAID, 95%
JACKET MATERIAL: FLAME RESISTANT PVC
COLOR CODE (EACH COAX): RED, GREEN, BLUE, BLACK, YELLOW,
WHITE
JACKET COLOR: BLACK
RIPCORD: YES
OUTSIDE DIAMETER (EACH COAX/OVERALL): .122"/.520" AVG.
FOOTAGE MARKERS: ASCENDING/DESCENDING IN FEET
MAXIMUM PULLING TENSION: 240 LBS
MINIMUM BEND RADIUS (EACH COAX): .90"
MINIMUM BEND RADIUS (OVERALL): 7.0"
PACKAGING: REEL
SHIPPING WEIGHT: 140 LBS./1000 FT.

ELECTRICAL CHARACTERISTICS (EACH COAX):

MAX. OPERATING VOLTAGE: 300V
IMPEDANCE: 75 OHM
NOM. INDUCTANCE: .19 UH/FT
NOM. CAPACITANCE CONDUCTOR TO SHIELD: 17.5 pF/FT
NOM. VELOCITY OF PROPAGATION: 81%
NOM. DELAY: 1.34 NS/FT
NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 32.5 OHMS/1000 FT.
NOM. SHIELD DC RESISTANCE @ 20 DEG. C: 8.5 OHMS/1000FT.
RETURN LOSS: 15 db MIN, 5-3000MHz

NOM. ATTENUATION:

	<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
	1	0.57	700	12.99
	5	1.25	1000	15.97
	50	3.52	1500	20.35
	100	4.72	2000	24.40
	450	10.13	3000	32.02

UL CRITERIA:

UL TYPE OR STYLE: UL/NEC: CM
FLAME RESISTANCE: UL1581 VERTICAL TRAY

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PHYSICAL CHARACTERISTICS (CAT5E):

TEMPERATURE RATING: -20 TO +80 DEG. C
CONDUCTOR/PAIR COUNT: 8 CONDUCTORS, 4 TWISTED PAIRS
CONDUCTOR MATERIAL: BARE COPPER
GAUGE & STRANDING: 24 AWG, SOLID
COLOR CODE: WHITE/BLUE STRIPE, BLUE
WHITE/ORANGE STRIPE, ORANGE
WHITE/GREEN STRIPE, GREEN
WHITE/BROWN STRIPE, BROWN
INSULATION MATERIAL: POLYOLEFIN
INSULATION THICKNESS: .008"
JACKET MATERIAL & THICKNESS: PVC, .19"
JACKET COLOR: BLUE
RIPCORD: YES
OUTSIDE DIAMETER: .20"

UL CRITERIA:

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

ELECTRICAL CHARACTERISTICS (CAT5E):

MAX. OPERATING VOLTAGE: 300V
NOM. MUTUAL CAPACITANCE @ 1 KHZ: 15 pF/FT.
MAX CAPACITANCE UNBALANCE (pF/100M): 66 pF/100M
NOM. VELOCITY OF PROPAGATION: 70%
MAX. DELAY (ns/100M): 510 ns/100M
MAX. DELAY SKEW (ns/100M): 25 ns/100M
MAX. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 9 OHMS/100M
MAX. DCR UNBALANCE @ 20 DEG. C: 3%

RETURN LOSS: 20-25 dB MIN., 1-99.9 MHZ/17.0-20.0 DB MIN., 100-350 MHZ

NOM. ATTENUATION:	MHZ	DB/100 M	MHZ	DB/100 M
	1	2.0	62.5	16.8
	4	4.0	100	21.7
	8	5.7	155	27.7
	10	6.4	200	32.0
	16	8.1	250	36.4
	20	9.2	300	40.5
	25	10.3	310	41.3
	31.25	11.6	350	44.3

NOTES:

1. Footage markers printed every two feet.
2. Foil shield is bonded to the dielectric.
3. Paper tissue between overall jacket and bundled components.
4. Suitable for indoor and some outdoor applications.
5. 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 expressed, statutory or implied.