

FUTURELOGIC®

11/11/08 Rev 1.0

2 RG6 Quad + 2 Cat 6 550 - Blue



PART NUMBER: 181FL6R-BL

DESCRIPTION: 18 AWG 1 CONDUCTOR SOLID COPPER COVERED STEEL, CELLULAR PE DIELECTRIC, 100% BONDED ALUMINUM FOIL/POLYESTER TAPE, 60% ALUMINUM BRAID, 100% ALUMINUM FOIL/POLYESTER TAPE, 40% ALUMINUM BRAID, PVC JACKET, SWEEPED TO 3.0 GHz, PLUS 2 CAT6 550MHz, UL/NEC, C(UL)/CEC: CMR/CATVR

PHYSICAL CHARACTERISTICS RG6 QUAD:

TEMPERATURE RATING: -10°C TO +75°C
CONDUCTOR MATERIAL & DIA.: 18 AWG SOLID COPPER COVERED STEEL, .040"
INSULATION MATERIAL & DIA.: FOAM PE, .18"
SHIELD TYPE & % COVERAGE:
 1ST LAYER AL FOIL/POLYESTER TAPE, 100% BONDED
 2ND LAYER ALUMINUM BRAID, 60%
 3RD LAYER AL FOIL/POLYESTER TAPE, 100%
 4TH LAYER ALUMINUM BRAID, 40%
JACKET MATERIAL & THICKNESS: PVC, .027"
JACKET COLOR: BLACK, WHITE
OUTSIDE DIAMETER: .295"

ELECTRICAL CHARACTERISTICS RG6 QUAD:

MAX. OPERATING VOLTAGE: 350V
IMPEDANCE: 75 OHM
NOM. INDUCTANCE: .097 uH/FT
NOM. CAPACITANCE CONDUCTOR TO SHIELD: 16.2 pF/FT
NOM. VELOCITY OF PROPAGATION: 84%
NOM. DELAY: 1.2 ns/FT
NOM. CONDUCTOR DC RESISTANCE @ 20 DEG.C: 6.4 OHMS/1000 FT
NOM. SHIELD DC RESISTANCE @ 20 DEG. C: 4.8 OHMS/1000 FT
RETURN LOSS: 20 dB MIN, 5-1000MHz
 15 dB MIN, 1000-2250 MHz
NOM. ATTENUATION:

	<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
	50	1.46	1200	7.50
	100	2.05	1450	8.04
	200	2.83	1800	8.50
	1000	6.88	2200	9.50

PHYSICAL CHARACTERISTICS CAT5E:

CONDUCTOR/PAIR COUNT: 4 TWISTED PAIRS
CONDUCTOR MATERIAL.: BARE COPPER SOLID,
GAUGE: 24 AWG
COLOR CODE: WHITE/BLUE STRIPE & BLUE
 WHITE/ORANGE STRIPE & ORANGE
 WHITE/GREEN STRIPE & GREEN
 WHITE/BROWN STRIPE & BROWN
INSULATION MATERIAL: FLAME RETARDANT PE

ELECTRICAL CHARACTERISTICS CAT5E:

MAX. OPERATING VOLTAGE: 300 V RMS
NOM. CAPACITANCE: 14 pf/FT
NOM. VELOCITY OF PROPAGATION: 70%
NOM. IMPEDANCE (.772 MHz-350MHz): 100 ohms
NOM. CONDUCTOR OF DC RESISTANCE @ 20 DEG. C: 28.6 OHMS/1000'
MAX. DELAY SKEW: 18 ns/100m

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JACKET MATERIAL & THICKNESS:

PVC, .0203"

JACKET COLOR:

GRAY, BLUE

OUTSIDE DIAMETER:

.206" NOM.

Frequency (MHz)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ELFEXT (dB)	Min. PS-ELFEXT (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	2.0	70.3	68.3	63.8	60.8	20.0	23.0
4	4.0	61.3	59.3	51.7	48.7	20.3	23.0
10	6.4	55.3	53.3	43.8	40.8	25	23.0
16	8.2	52.3	50.3	39.7	36.7	25.0	23.0
20	9.2	50.8	48.8	37.7	34.7	25.0	23.0
31.25	11.7	47.9	45.9	33.9	30.9	23.6	21.1
62.5	16.9	43.4	41.4	27.8	24.8	21.5	18.1
100	21.9	40.3	38.3	23.8	20.8	20.1	16.0
250	36.8	34.3	32.3	15.8	12.8	17.3	12.0
300	40.9	33.2	31.2	14.2	11.2	16.8	11.2
350	44.8	32.2	30.2	12.9	9.9	16.3	10.6

PHYSICAL CHARACTERISTICS OVERALL:

TEMPERATURE RATING:

-20°C TO +60°C

JACKET MATERIAL & THICKNESS:

PVC, .037" NOM.

JACKET COLOR:

BLUE

RIPCORDER:

NYLON

OUTSIDE DIAMETER:

.388" NOM.

FOOTAGE MARKERS:

ASCENDING/DESCENDING IN FEET

PACKAGING:

REEL

SHIPPING WEIGHT:

83 LBS/1000'

UL CRITERIA:

UL TYPE OR STYLE:

CMR, CATV

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.