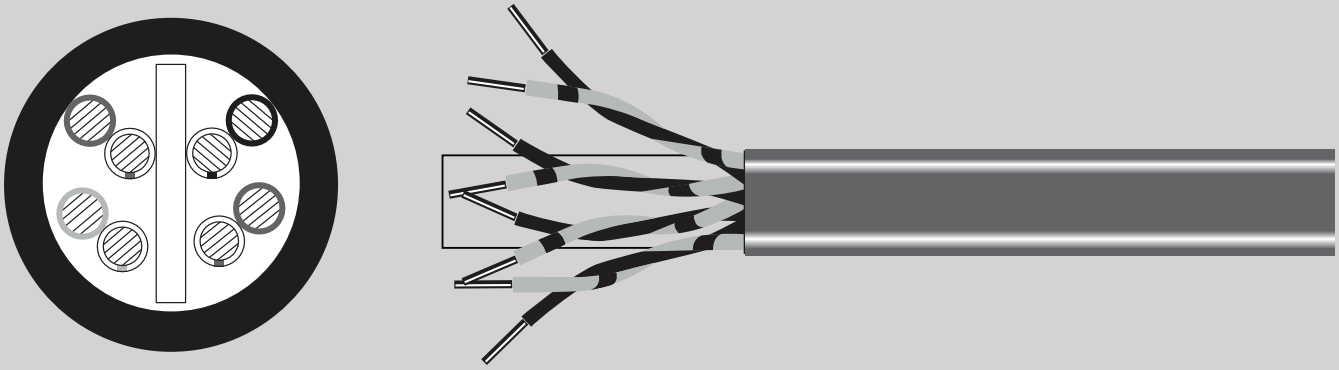
## DATA SHEET

C5EGF-NA-1000-R2

# CAT5E OUTDOOR NON-ARMORED CABLE

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM

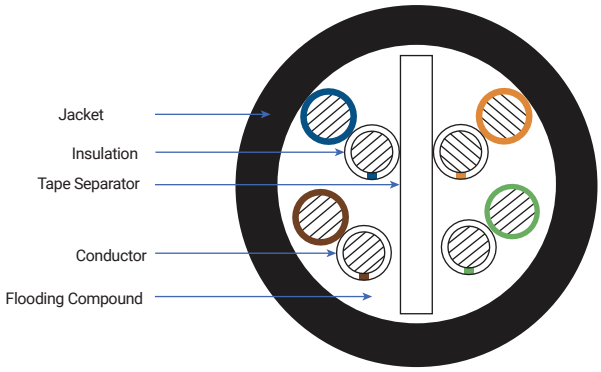


| TABLE 1. MECHANICAL SPECIFICATIONS | |
|---|---|
| NOMINAL JACKET OD | 0.235" |
| JACKET MINIMUM SPOT THICKNESS | 0.025" |
| INSTALLATION TEMPERATURE | 32 to 140° F (0 to 60° C) |
| OPERATION TEMPERATURE | -40 to +158° F (-40 to +70° C) |
| CONDUCTOR MATERIAL | Bare Copper |
| INSULATION MATERIAL | Polyolefin |
| JACKET MATERIAL | Polyethylene |
| CONDUCTOR | Solid |
| GAUGE | 24 AWG |
| FREQUENCY | 350 Mhz |
| COLOR | Black |

BLACK BOX

# SPECIFICATIONS

## COLOR CODING




| TABLE 2. PAIR IDENTIFICATION | |
|---|---|
| PAIR 1 | Blue/White with Co-Extruded Blue Stripe on White Single |
| PAIR 2 | Orange/White with Co-Extruded Orange Stripe on White Single |
| PAIR 3 | Green/White with Co-Extruded Green Stripe on White Single |
| PAIR 4 | Brown/White with Co-Extruded Brown Stripe on White Single |

## COMPARISON CHART

| TABLE 3. ELECTRICAL SPECIFICATIONS | |
|---|---|
| INPUT IMPEDANCE | 100 ohms +15 ohms, 0.772 < frequency < 100 ohms;<br>±22 ohms, 100 < frequency < 200 |
| CAPACITANCE | 5.5/100 m nominal |
| DC RESISTANCE/UNBALANCE | 9.38/100 m nominal |
| DIELECTRIC BREAKDOWN | 2500 Volts DC Conductor to Conductor |
| PROPAGATION DELAY | 5.29 nsec/m max. @ 10 MHz |
| PROPAGATION DELAY SKEW | < or = 45 ns/100 m |
| NOMINAL VELOCITY OF PROPAGATION, NVP | 61.7% |

NOTE: Cables are specified with a 5% allowance on propagation delay to the TIA/EIA 568.B 2-1 specification, due to waterproofing agents.

# SPECIFICATIONS

## ELECTRICAL PERFORMANCE

| TABLE 4. ELECTRICAL PERFORMANCE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FREQUENCY | ATTENUATION (MAX.) | NEXT (MIN.) | ACR (MIN.) | POWER SUM (MIN.) | | | ELFEXT (MIN.) | RETURN LOSS (MIN.) |
| (MHZ) | (DB/100 M) | (DB) | (DB/100 M) | NEXT (DB) | ELFEXT (DB) | ACR (DB) | (DB/100 M) | (DB) |
| 0.772 | 1.8 | 71 | 69 | 68 | 67 | 66 | 69 | 23.0 |
| 1.0 | 2.0 | 69 | 67 | 66 | 66 | 64 | 68 | 23.0 |
| 4.0 | 4.1 | 60 | 56 | 57 | 54 | 53 | 56 | 23.3 |
| 8.0 | 5.8 | 56 | 50 | 53 | 48 | 47 | 50 | 25.0 |
| 10.0 | 6.5 | 54 | 48 | 51 | 46 | 45 | 48 | 25.5 |
| 16.0 | 8.2 | 51 | 43 | 48 | 42 | 40 | 44 | 25.5 |
| 20.0 | 9.3 | 50 | 41 | 47 | 40 | 38 | 42 | 25.5 |
| 25.0 | 10.4 | 48 | 38 | 45 | 38 | 35 | 40 | 24.9 |
| 31.25 | 11.7 | 47 | 36 | 44 | 36 | 33 | 38 | 24.4 |
| 62.5 | 17.0 | 42 | 26 | 39 | 30 | 23 | 32 | 23.0 |
| 100.0 | 22.0 | 39 | 18 | 36 | 26 | 15 | 28 | 23.0 |

NOTES:

All tests include swept frequency measurements.

NEXT and Power Sum values are derived from functions and truncated to the nearest whole DB.

# ORDERING INFORMATION/NOTES

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## ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

# ORDERING INFORMATION

| ITEM | CODE |
|---|---|
| CAT5e Outdoor-Rated, Gel-Filled Non-Armored Cable | **C5EGF-NA-1000-R2** |

FILENAME: c5egf-na-1000-r2_ds_rev3.pdf



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