

## Detailed Specification & Technical Data



**259868**

RG8/U - 10AWG 50 Ohm Coaxial Cable CMP Rated

RF 50 Ohm Video, Wireless Mic Distribution

### Construction & Dimenstions

| CONDUCTOR PARAMETERS                   |                            |
|----------------------------------------|----------------------------|
| Number Of Conductors                   | 1                          |
| AWG Size                               | 10                         |
| Conductor Stranding                    | Solid                      |
| Conductor Type                         | Bare copper                |
| Nominal DCR                            | 0.9 Ohm/1000ft             |
| INSULATION PARAMETERS                  |                            |
| Insulation Type                        | Foam FEP                   |
| Insulation Thickness                   | 0.28 in                    |
| SHIELDING PARAMETERS                   |                            |
| Shield Type                            | Overall 100% Aluminum Foil |
| Shield Type 2                          | 90% Tinned Braid           |
| ELECTRICAL CHARACTERISTICS             |                            |
| Nominal Impedance                      | 50 Ohm                     |
| Nominal Capacitance Between Conductors | 25 pF/ft                   |

### Overall Construction

| OVERALL CONSTRUCTION PARAMETERS |          |
|---------------------------------|----------|
| Jacket Type                     | PVDF     |
| Nominal Cable O.D.              | 0.405 in |
| Plenum                          | Yes      |
| NEC UL Rating                   | CMP      |
| RoHS Compliant                  | Yes      |
| Pull Tension                    | 300 lbs  |
| Bend Radius                     | 4.05 in  |
| Cable Weight                    | 103 lbs  |

### Overall Electrical & Optical Characteristics

| OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS |                  |
|--------------------------------------------|------------------|
| Nominal Velocity of Propagation (VP)       | 83 %             |
| Delay Skew                                 | 1.2 ns/ft        |
| UL Flammability                            | NFPA 262 Plenum  |
| Operating Range                            | -50 to 150 Deg C |
| UL Voltage Rating                          | 300              |

**2598G8**

## Attenuation Performance

| Frequency (MHz) | Attenuation (db/100ft) |
|-----------------|------------------------|
| 1 MHz           | 0.1 db/100ft           |
| 10 MHz          | 0.4 db/100ft           |
| 50 MHz          | 1 db/100ft             |
| 100 MHz         | 1.4 db/100ft           |
| 200 MHz         | 2.0 db/100ft           |
| 400 MHz         | 3.1 db/100ft           |
| 900 MHz         | 5.5 db/100ft           |
| 1000 MHz        | 5.8 db/100ft           |
| 4000 Mhz        | 14.0 db/100ft          |

## Power Rating

| Frequency [MHz] | Max Power Rating [W] |
|-----------------|----------------------|
| 5 MHz           | 4,021 W              |
| 10 MHz          | 3,217 W              |
| 50 MHz          | 1,609 W              |
| 100 MHz         | 1,149 W              |
| 200 MHz         | 894 W                |
| 400 MHz         | 619 W                |
| 700 MHz         | 447 W                |
| 900 MHz         | 393 W                |
| 1,000 MHz       | 366 W                |

## Related Products

| RELATED PRODUCTS  |             |
|-------------------|-------------|
| Non-Plenum Number | 98G8        |
| BNC Crimp         | CN-BM2598G8 |

## Part Numbers

| Part Numbers |                                   |
|--------------|-----------------------------------|
| 2598G8BK1000 | Black Jacket   1000ft Wooden Reel |