

8241F Coax - 75 Ohm Coax

 For more Information  
 please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) .030" bare copper conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 22  | 7x30      | BC - Bare Copper   | .030       |

Total Number of Conductors: 1

**Insulation**

Insulation Material:

| Insulation Material     | Dia. (in.) |
|-------------------------|------------|
| FPE - Foam Polyethylene | .146       |

**Outer Shield**

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 95           |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 0.241 in.

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -30°C To +60°C  |
| Non-UL Temperature Rating:        | 60°C            |
| Bulk Cable Weight:                | 33 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 65 lbs.         |
| Min. Bend Radius/Minor Axis:      | 2.500 in.       |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |            |
|---------------------------------------|------------|
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU CE Mark:                           | No         |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL Order #39 (China RoHS):           | Yes        |
| RG Type:                              | 59/U       |

**Suitability**

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 75              |

## Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .09                |

## Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 17.3                |

## Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 78     |

## Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.3           |

## Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 15                       |

## Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2.6                      |

## Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .3                       |
| 10          | .9                       |
| 50          | 2.1                      |
| 100         | 3.0                      |
| 200         | 4.5                      |
| 400         | 6.6                      |
| 700         | 8.9                      |
| 900         | 10.1                     |
| 1000        | 10.9                     |

## Max. Operating Voltage - Non-UL:

| Voltage   |
|-----------|
| 300 V RMS |

## Misc. Information (Overall)

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color              | Notes | Item Desc       |
|---------------|----------|-------------|--------------------|-------|-----------------|
| 8241F G7V1000 | 1,000 FT | 36.000 LB   | RED, MATTE         |       | #22 FPE BRD PVC |
| 8241F G7W1000 | 1,000 FT | 36.000 LB   | GREEN, MATTE       |       | #22 FPE BRD PVC |
| 8241F G7X1000 | 1,000 FT | 36.000 LB   | BLUE, MATTE        |       | #22 FPE BRD PVC |
| 8241F G7Y1000 | 1,000 FT | 36.000 LB   | WHITE, MATTE       |       | #22 FPE BRD PVC |
| 8241F G8M1000 | 1,000 FT | 36.000 LB   | YELLOW, MATTE      | C     | #22 FPE BRD PVC |
| 8241F J5C1000 | 1,000 FT | 36.000 LB   | BLACK, VIVID MATTE | C     | #22 FPE BRD PVC |
| 8241F U901000 | 1,000 FT | 36.000 LB   | GRAY, MATTE        |       | #22 FEP BRD PVC |

## Notes:

C = CRATE REEL PUT-UP.

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