

**543945 Coax - Surveillance and CCTV Applications**

|   |  |   |
|---|--|---|
|  |  | <p>For more information please<br/>call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|---|--|---|

**Description:**

20 AWG solid bare copper conductor, foam polyethylene insulation, bare copper braid shield, PVC jacket, sequential footage marking every two feet.

**SUITABLE APPLICATIONS:**

|                       |                         |
|-----------------------|-------------------------|
| Suitable Applications | Analog Video/CCTV Coax. |
|-----------------------|-------------------------|

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                    |                  |
|--------------------|------------------|
| Number of Coax     | 1                |
| RG Type            | 59/U             |
| Series Type        | Series 59        |
| AWG                | 20               |
| Stranding          | Solid            |
| Conductor Diameter | .032 in.         |
| Conductor Material | BC - Bare Copper |

**INSULATION:**

|                     |                                      |
|---------------------|--------------------------------------|
| Insulation Material | Gas-injected FPE - Foam Polyethylene |
| Insulation Diameter | .145 in.                             |

**OUTER SHIELD:**

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

**OUTER JACKET:**

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

**OVERALL NOMINAL DIAMETER:**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .232 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | -30°C To +75°C  |
| UL Temperature Rating            | 75°C            |
| Bulk Cable Weight                | 29 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 57 lbs.         |

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|                            |         |
|----------------------------|---------|
| Min. Bend Radius (Install) | 2.5 in. |
|----------------------------|---------|

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CM         |
| NEC Articles                          | 800        |
| CEC/C(UL) Specification               | CM         |
| EU CE Mark (Y/N)                      | Yes        |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |

#### FLAME TEST:

|                  |                   |
|------------------|-------------------|
| UL Flame Test    | UL1685 UL Loading |
| C(UL) Flame Test | FT1               |

#### SUITABILITY:

|                       |                  |
|-----------------------|------------------|
| Suitability - Indoor  | Yes              |
| Suitability - Outdoor | Yes - Black only |
| Suitability - Aerial  | Yes - Black only |

#### PLENUM/NON-PLENUM:

|              |   |
|--------------|---|
| Plenum (Y/N) | N |
|--------------|---|

#### ELECTRICAL CHARACTERISTICS:

|   |                   |
|---|-------------------|
| Nom. Characteristic Impedance                 | 75 Ohms           |
| Nom. Inductance                               | .097 $\mu$ H/ft   |
| Nom. Capacitance Conductor to Shield          | 16.3 pF/ft        |
| Nominal Velocity of Propagation               | 83 %              |
| Nominal Delay                                 | 1.21 ns/ft        |
| Nom. Conductor DC Resistance @ 20 Deg. C      | 10.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg.C | 3.5 Ohms/1000 ft  |

#### Nom. Attenuation :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 1               |                       |                      | .30                           |
|             | 5               |                       |                      | .65                           |
|             | 10              |                       |                      | .90                           |
|             | 50              |                       |                      | 1.90                          |
|             | 100             |                       |                      | 2.60                          |
|             | 200             |                       |                      | 3.60                          |
|             | 400             |                       |                      | 5.00                          |
|             | 700             |                       |                      | 7.00                          |
|             | 900             |                       |                      | 8.00                          |
|             | 1000            |                       |                      | 8.50                          |

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**PUT-UPS AND COLORS:**

| Item            | Description  | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|-----------------|--------------|--------------|--------------------|--------------|-------|
| 543945 0091000  | RG-59/U COAX | 1000         | 32                 | WHITE        | C     |
| 543945 009500   | RG-59/U COAX | 500          | 16                 | WHITE        |       |
| 543945 009U1000 | RG-59/U COAX | U1000        | 31                 | WHITE        |       |
| 543945 009U500  | RG-59/U COAX | U500         | 16                 | WHITE        |       |
| 543945 0101000  | RG-59/U COAX | 1000         | 32                 | BLACK        | C     |
| 543945 010500   | RG-59/U COAX | 500          | 16                 | BLACK        | C     |
| 543945 010U1000 | RG-59/U COAX | U1000        | 31                 | BLACK        |       |
| 543945 010U500  | RG-59/U COAX | U500         | 16                 | BLACK        |       |

C = CRATE REEL PUT-UP.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А