

# RG 59/U Type

## Product Construction:

### Conductors:

- Copper per ASTM B-3
- Copper-clad steel per ASTM B-869
- Twisted pair color code: black and red

### Insulation/Core:

- Solid and cellular polyethylene (PE) designs or foam fluoropolymer (FEP) design

### Shield:

- Bare copper braid

### Jacket:

- Premium PVC compound or PE compound

### Packaging:

- Please contact Customer Service for packaging and color options

## Applications:

- Suitable for RF signal transmission
- CATV
- MATV
- CCTV†
- Local Area Network
- Digital video
- Monitor/VDT display
- See Coax Connector Cross Reference, pages 192-199

| CATALOG<br>NUMBER                                                                                                                                            | AWG<br>SIZE<br>NOM. DCR                                        | INSULATION<br>MATERIAL |      | SHIELD<br>COVERAGE<br>NOM SHLD DCR     | NOMINAL<br>O.D.                |      | NOMINAL<br>CAPACITANCE |       | VELOCITY OF<br>PROPAGATION,<br>% | NOMINAL<br>IMPEDANCE,<br>Ω | NOMINAL<br>ATTENUATION                                                |                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------|------|----------------------------------------|--------------------------------|------|------------------------|-------|----------------------------------|----------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                                                                                              |                                                                | INCHES                 | mm   |                                        | INCHES                         | mm   | pF/ft                  | pF/m  |                                  |                            | MHz                                                                   | dB/100'                                                                           |
| C1102<br>RG 59/U Type<br>                                                   | 20 Ga. Solid<br>Copper-Clad<br>Steel<br>45.9 Ω/Mft.            | Foam PE                |      | 95% Bare<br>Copper Braid<br>3.5 Ω/Mft. | Black PE                       |      | 17.30                  | 56.76 | 82                               | 75                         | 1                                                                     | 0.26                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.242                          | 6.15 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 0.82<br>1.80<br>2.60<br>3.70<br>6.00<br>8.80<br>10.60<br>11.81<br>13.05<br>15.24  |
| C1104<br>RG 59/U Type<br>UL 1354<br>                                        | 22 Ga. Solid<br>Copper-Clad<br>Steel<br>73.4 Ω/Mft.            | Solid PE               |      | 95% Bare<br>Copper Braid<br>2.6 Ω/Mft. | Black PVC                      |      | 20.50                  | 67.26 | 66                               | 73                         | 1                                                                     | 0.41                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.242                          | 6.15 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 0.99<br>2.38<br>3.49<br>5.09<br>8.43<br>13.03<br>15.69<br>17.48<br>19.33<br>22.57 |
| C1135<br>RG 59/U Type<br>UL CL2, CATV, CM<br>CSA CMG<br>UL 1354<br>       | 22 Ga. Solid<br>Copper-Clad<br>Steel<br>73.4 Ω/Mft.            | Foam PE                |      | 95% Bare<br>Copper Braid<br>2.6 Ω/Mft. | Black PVC                      |      | 16.30                  | 53.48 | 78                               | 80                         | 1                                                                     | 0.42                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.242                          | 6.15 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 0.92<br>2.10<br>2.90<br>4.10<br>6.60<br>9.30<br>11.20<br>12.48<br>13.79<br>16.11  |
| C1103†<br>RG 59/U Type<br>UL CL2, CATV, CM<br>CSA CMG<br>UL 1354<br>      | 22 Ga.<br>(7/30)<br>Bare Copper<br>14.8 Ω/Mft.                 | Foam PE                |      | 95% Bare<br>Copper Braid<br>2.6 Ω/Mft. | Black PVC                      |      | 17.00                  | 55.78 | 78                               | 76                         | 1                                                                     | 0.26                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.242                          | 6.15 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 0.91<br>2.09<br>3.00<br>4.33<br>7.03<br>10.64<br>12.81<br>14.28<br>15.78<br>18.43 |
| C1142†<br>RG 59/U Type<br>UL CL2, CATV, CM CSA<br>CMG<br>UL 1354<br>      | 20 Ga. Solid<br>Bare Copper<br>10.1 Ω/Mft.                     | Foam PE                |      | 95% Bare<br>Copper Braid<br>2.6 Ω/Mft. | Black PVC                      |      | 16.20                  | 53.15 | 78                               | 71                         | 1                                                                     | 0.25                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.234                          | 5.94 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 0.78<br>1.97<br>2.79<br>3.97<br>6.35<br>9.15<br>11.02<br>12.28<br>13.57<br>15.85  |
| C1106<br>RG 59B/U Type<br>MIL-C-17D Type<br>UL 1354<br>                   | 23 Ga. Solid<br>Copper-Clad<br>Steel<br>68.5 Ω/Mft.            | Solid PE               |      | 95% Bare<br>Copper Braid<br>2.6 Ω/Mft. | Non-Contaminating<br>Black PVC |      | 21.00                  | 68.90 | 66                               | 73                         | 1                                                                     | 0.44                                                                              |
|                                                                                                                                                              |                                                                | 0.146                  | 3.71 |                                        | 0.242                          | 6.15 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000<br>1450<br>1800<br>2200<br>3000 | 1.02<br>2.44<br>3.55<br>5.18<br>8.59<br>13.56<br>16.33<br>18.19<br>20.11<br>23.49 |
| C8030†<br>RG 59/U Type<br>+18 AWG Unshielded Pair<br>UL CMP c(UL) CMP<br> | 20 AWG Solid<br>BC Coax<br>18 AWG (7/26)<br>Unshielded<br>Pair | Fluoropolymer          |      | 95% Bare<br>Copper Braid               | Natural PVC                    |      | 16.30                  | 53.48 | 83                               | 75                         | 1                                                                     | 0.78                                                                              |
|                                                                                                                                                              |                                                                | 0.135                  | 3.43 |                                        | 0.200                          | 5.08 |                        |       |                                  |                            | 10<br>50<br>100<br>200<br>500<br>1000                                 | 1.90<br>1.98<br>2.80<br>4.10<br>6.82<br>9.64                                      |
|                                                                                                                                                              |                                                                | PVC                    |      | Unshielded<br>Pair                     | X                              | X    |                        |       |                                  |                            |                                                                       |                                                                                   |
|                                                                                                                                                              |                                                                | 0.006                  | 0.15 |                                        | 0.383                          | 9.73 |                        |       |                                  |                            |                                                                       |                                                                                   |