

**TECHNICAL DATA SHEET**

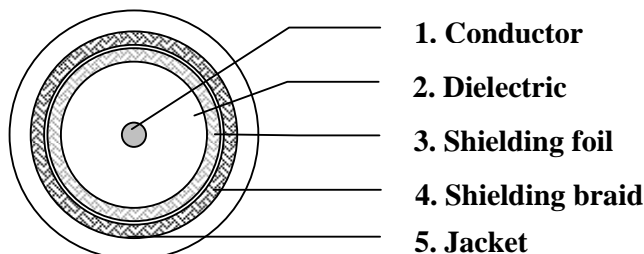
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1855ENH Digital Video Coax**OVERVIEW CODES**

Code number	Color code xxxx	Put-up yyy	Color	Put-up length
50005	3435	028	Green	500 ± 0 meter

APPLICATION

75 Ohm miniature precision video coaxial cable.

CONSTRUCTION

- | | |
|---------------------------|-----------------------------------|
| 1. Conductor. | |
| Material | Bare copper |
| Diameter | 0.65 ± 0.02 mm (AWG22) |
| 2. Dielectric | |
| Material | Gas injected foam high density PE |
| Diameter over insulation | 2.90 ± 0.15 mm |
| 3. Shielding foil | |
| Material | Duofoil ® tape |
| Coverage: | 100% |
| 4. Shielding braid | |
| Material | Tinned copper |
| Coverage | 95% |
| 5. Jacket | |
| Material | matte FRNC |
| Diameter: | 4.45 ± 0.15 mm |
| Color and text: | see table Marking |

REQUIREMENTS AND TEST METHODS**Electrical:**

Mean characteristic impedance:	75 ± 3 Ω
Nominal inductance	0.35 μH/m
Nominal capacitance conductor to shield:	53 pF/m
Nominal velocity of propagation:	84%
Nominal delay	4 ns/m
Nominal conductor DC resistance @ 20 °C:	≤ 55 Ω/km
Nominal shield DC resistance @ 20 °C:	≤ 17 Ω/km
Return loss at 5-470 MHz:	≥ 20 dB*
470-862 MHz:	≥ 18 dB*
862-2150 MHz:	≥ 16 dB*

Nominal Attenuation:

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 $a \cdot \sqrt{\text{freq}} + b \cdot \text{freq} + c$ [dB/100m], with freq = frequency in [MHz]
a: 0.9 dB/100m*MHz^{-0.5}

b: 0.002 dB/(100m*MHz)

c: 0.8 dB/100m

MHz	dB/100m	MHz	dB/100m
1	1.7	180	13.2
3.58	2.5	270	16.1
5	2.8	360	18.6
7	3.2	540	22.8
10	3.7	720	26.4
67.5	8.3	750	26.9
71.5	8.6	1000	31.3
88.5	9.4	1500	38.7
100	10.0	2000	45.0
135	11.5	2250	48.0
143	11.8	3000	56.1

Mechanical and physical characteristics

Temperature range - storage/operating:	-15 to +70°C
Temperature range - installation:	-5 to +50 °C
Minimum bend radius - operation:	23 mm
Minimum bend radius - installation:	45 mm
Tensile strength:	≥ 9.0 N/mm ²
Elongation at break:	≥ 100 %
Crush resistance of cable:	< 1% (load of 700N)
Flame retardancy:	IEC 60332-1
Total weight:	30 kg/km

MARKING

Color code	Jacket color	RAL like	Text
3435	Green	6018	VIDEO BRILLIANCE (R) BY BELDEN 1855ENH - 0.6/2.8 DUOFOIL(R) + BRAID - FRNC SDV - LFH

Meter marking: Yes

Coded date marking: Yes

PACKAGING

Put-up code	Put-up length	Put-up type
028	500 -0/+0 meter	Non-returnable reel;