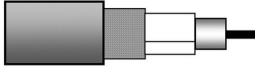


Product: [H155A00](#) 

COAX RF H155 PVC



Product Description

COAX RF [1.4/3.9] H155 STRANDED PVC

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | 50 Ohm low loss coaxial transmission cable designed according European Standard EN 50117-1; Operating frequencies between 5 and 6000 MHz |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Construction n x D | Nominal Diameter | Diameter +/- Tolerance | No. of Coax |
|-----|-----------|------------------|--------------------|------------------|------------------------|-------------|
| 16 | Stranded | BC - Bare Copper | 19x0.28 mm | 1.41 mm | 0.03 mm | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Type | Material | Nominal Diameter | Diameter +/- Tolerance |
|------------|--------------------------|------------------|------------------------|
| Dielectric | PE - Polyethylene (Foam) | 3.9 mm | 0.15 mm |

| | |
|-------------------------|---------------------|
| Insulation, Table Note: | Centricity min. 85% |
|-------------------------|---------------------|

Outer Shield Material

| Type | Layer | Material | Coverage [%] | Min. Overlap | Nominal Diameter | Diameter +/- Tolerance | Coverage +/- Tolerance |
|-------|-------|--------------------|--------------|--------------|------------------|------------------------|------------------------|
| Tape | 1 | Alum / Poly / Alum | | 2 mm | | | |
| Braid | 2 | TC - Tinned Copper | 80 % | | 4.5 mm | 0.25 mm | 5 % |

Outer Jacket Material

| Material | Nominal Diameter | Diameter +/- Tolerance |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 5.4 mm | 0.2 mm |

Construction and Dimensions

| | |
|-----------------------------------|----------|
| Min Elongation at Breakof Jacket: | 150 % |
| Min Tensile Strength of Jacket: | 12.5 MPa |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR | Max. Conductor Loop | Max. Shield DCR |
|--------------------|---------------------|-----------------|
| 15.4 Ohm/km | 32.4 Ohm/1000ft | 17 Ohm/km |

Capacitance

| Capacitance Tolerance | Nom. Capacitance Conductor to Shield |
|-----------------------|--------------------------------------|
| 3 pF/m | 84 pF/m |

Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance | Regularity of Impedance |
|----------------------------------|----------------------------------|-------------------------|
| 50 Ohm | 3 Ohm | Min. 40 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 5 MHz | 2.5 dB/100m |
| 50 MHz | 6.9 dB/100m |
| 100 MHz | 9.1 dB/100m |
| 230 MHz | 13.4 dB/100m |
| 400 MHz | 18 dB/100m |
| 800 MHz | 26.1 dB/100m |
| 862 MHz | 27.3 dB/100m |
| 1000 MHz | 29.6 dB/100m |
| 1350 MHz | 34.9 dB/100m |
| 1750 MHz | 40.3 dB/100m |
| 2150 MHz | 46 dB/100m |
| 2400 MHz | 49.1 dB/100m |
| 3000 MHz | 56.3 dB/100m |
| 3600 MHz | 62.9 dB/100m |
| 4200 MHz | 69.1 dB/100m |
| 4800 MHz | 75.1 dB/100m |
| 5400 MHz | 80.8 dB/100m |
| 6000 MHz | 86.5 dB/100m |

Delay

| Nominal Velocity of Propagation (VP) [%] | Velocity of Propagation Tolerance |
|--|-----------------------------------|
| 80 % | 2 % |

High Freq

| Element | Frequency [MHz] | Min. RL (Return Loss) [dB] |
|----------------------|-----------------|----------------------------|
| | 5 - 30 MHz | 20 dB |
| | 30 - 470 MHz | 20 dB |
| | 470 - 1000 MHz | 18 dB |
| | 1000 - 2000 MHz | 16 dB |
| | 2000 - 3000 MHz | 15 dB |
| for information only | 3000 - 6000 MHz | 15 dB |

High Freq Table Note: In each frequency band, 3 peak values up to 4 dB lower are allowed

Screening

| Frequency [MHz] | Min. Screening Attenuation |
|-----------------|----------------------------|
| 30 - 1000 MHz | 85 dB |

Voltage

| Voltage Test Dielectric |
|-------------------------|
| 2.0 kV DC |

Temperature Range

| | |
|--------------------------|----------------|
| Installation Temp Range: | -5°C To +50°C |
| Storage Temp Range: | -15°C To +70°C |
| Operating Temp Range: | -15°C To +70°C |

Mechanical Characteristics

| | |
|---|--------------------------|
| Max Recommended Pulling Tension: | 100 N |
| Min Bend Radius (W/o Pulling Strength): | 60 mm |
| Crush Resistance: | Max. 1% (load of 700N) N |
| Adhesion Dielectric: | 5-50 N at 25 mm N |

Standards

| | |
|---------------------|--|
| CPR Euroclass: | Eca |
| CENELEC Compliance: | EN 50117-1, EN 50117-2-4 and EN 50290-2-20 |
| RG Type: | 58/U Type |

Applicable Environmental and Other Programs

| | |
|----------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Eca |
|----------------------|------------------------|

EU RoHS Compliance Date (yyyy-mm-dd): 1998-01-01

Flammability, LSOH, Toxicity Testing

| | |
|-----------------------|----------------|
| ISO/IEC Flammability: | IEC 60332-1-2 |
| Other Flammability: | UN ECE R118.02 |

Part Number

Variants

| Item # | Color | Putup Type | Length | EAN |
|----------------|-------|------------|---------|---------------|
| H155A00.001000 | Gray | Reel | 1,000 m | 8719605087812 |
| H155A00.00250 | Gray | Reel | 250 m | 8719605087829 |
| H155A00.00252 | Gray | Reel | 252 m | 8719605087836 |
| H155A00.00500 | Gray | Reel | 500 m | 8719605087843 |
| H155A00.00505 | Gray | Reel | 505 m | 8719605087850 |
| H155A00.009999 | Gray | Reel | 499 m | 8719605087867 |
| H155A00.00B100 | Gray | Flat Box | 100 m | 8719605087874 |
| H155A00.00B50 | Gray | Flat Box | 50 m | 8719605087881 |
| H155A00.099999 | Gray | Reel | 999 m | 8719605087898 |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.166 Revision Date: 04-08-2020 |
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