

Specification

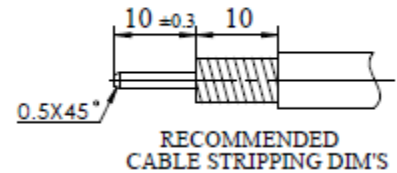
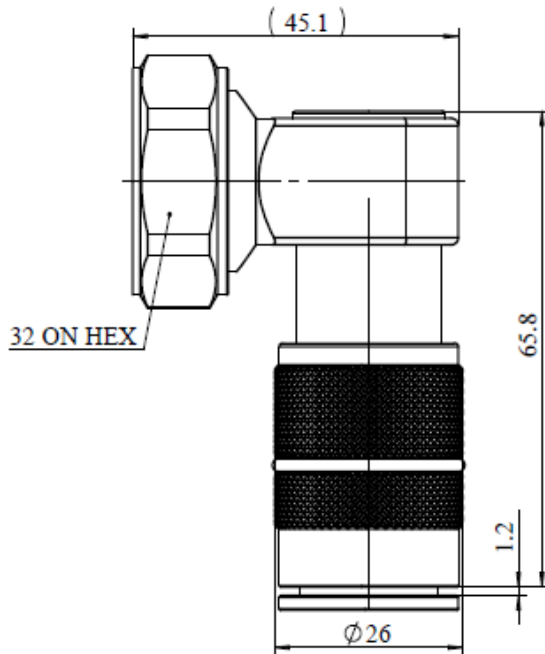
Amphenol

Changzhou Amphenol Fuyang Communication Equipment Co. Ltd.

| | | |
|---------------------|--|------------------|
| Product Description | 7/16 Male Angle Compression Connector for 1/2" Superflexible Cable | Date: 2020.07.20 |
| Part NO. | AFB301-1 | Ver. 2 |

UNIT: mm

[Installation instructions](#)



Reference Standard

IEC61169-4

Electrical Performance

| | |
|----------------------------------|---|
| Nominal Impedance (Ω) | 50 |
| Frequency Range | DC~6GHz |
| VSWR | ≤1.15(0-3GHZ) ≤1.35(3-6GHZ) |
| PIM (dBc) | ≤-160(2*43dBm) |
| Insertion Loss | ≤0.1 √ F(GHz) |
| Insulation Resistance(MΩ/500VDC) | ≥10000 |
| Proof Voltage (V/AC) | ≥3000 |
| Contact Resistance (mΩ) | ≤0.8 (Inner Conductor) ≤0.2 (Outer Conductor) |

Mechanical Performance

| | |
|---------------------------------|------------|
| Interface Durability | 500 Cycles |
| Nut Torque | 25 N.m |
| (Nut) Whorl Pull | 1000 N |
| Tensile Force (Cable-Connector) | 300 N |
| Torsion (Cable-Connector) | 2.8 N.m |

Material and Plating

| Connector Parts | Material | Plating |
|-----------------|----------------------|---------------------|
| Inner Conductor | Brass /Spring Copper | Ag 3μm |
| Outer Conductor | Brass | Copper-tin-zinc 3μm |
| Nut | Brass | Ni 3μm |
| Insulator | PTFE/TPX | |
| Gasket | Silicone Rubber | |

Environment

| | |
|------------------------|-------------------------|
| Temperature Range | -40°C~+85°C |
| Weather Standard | IEC60068 40/ 085/ 21 |
| Thermal Shock | IEC60068-2-14-Na |
| Vibration | IEC60068-2-6-Fc |
| Shock | IEC60068-2-27 |
| Waterproofing Standard | IP68 |
| ROHS | Compliant(EU and China) |

Assembly

Inner conductor Installed and outer conductor Compressed.

| Cable Supported | Cable Type Supported |
|-----------------|----------------------|
| Amphenol | AFY-50-12S |
| Andrew | FSJ4-50B |
| Draka | RFF1/2"-50 |
| Eupen | EC4-50-HF |
| RFS | SCF12-50 |

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