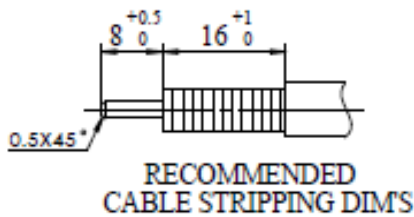
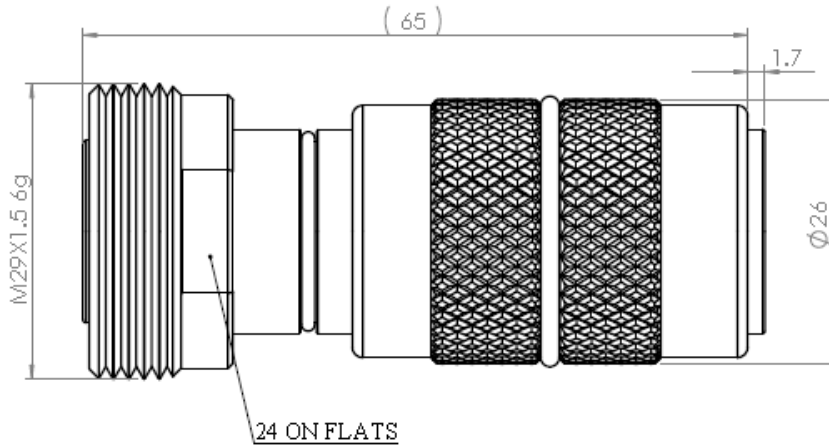


Specification

Product Description	7/16 Female Compression Connector for 1/2" Annular Cable	Date: 2020.11.18
Part NO.	AFB730-1	Ver. 0

UNIT: mm



Reference Standard

IEC61169-4

Electrical Performance

Nominal Impedance (Ω)	50
Frequency Range	DC~6GHz
VSWR	$\leq 1.15(0-3\text{GHz})$ $\leq 1.25(3-6\text{GHz})$
PIM (dBc)	$\leq -160(2*43\text{dBm})$
Insertion Loss	$\leq 0.05 \sqrt{F(\text{GHz})}$
Insulation Resistance($M\Omega / 500\text{VDC}$)	≥ 5000
Proof Voltage (V/AC)	≥ 2500
Contact Resistance (m Ω)	$\leq 0.2(\text{Inner Conductor}) \leq 0.8 (\text{Outer Conductor})$

Mechanical Performance

Interface Durability	500 Cycles
Retention	5.88N
Tensile Force (Cable-Connector)	500 N
Torsion (Cable-Connector)	5N.m
Weight	150g

Material and Plating

Connector Parts	Material	Plating
Inner Conductor	Spring Copper	Ag 3μm
Outer Conductor	Brass	Copper-tin-zinc3μm
Insulator	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	Cable Supported	Cable Type Supported
Amphenol	AFY-50-12R	Andrew	LDF4-50A
Draka	RF1/2"-50	Andrew	HL4RPV-50A (Plenum)
Eupen	EC4-50	Andrew	AL4RPV-50 (Plenum) (Apply to 0-4.2GHz)
RFS	LCF12-50J	RFS	ICA12-50JPLW (Plenum)

NOTE: The technical specification contains proprietary information and such information may not be disclosed to others for any particular purpose or used for manufacturing purposes without written permission from Amphenol Fuyang.