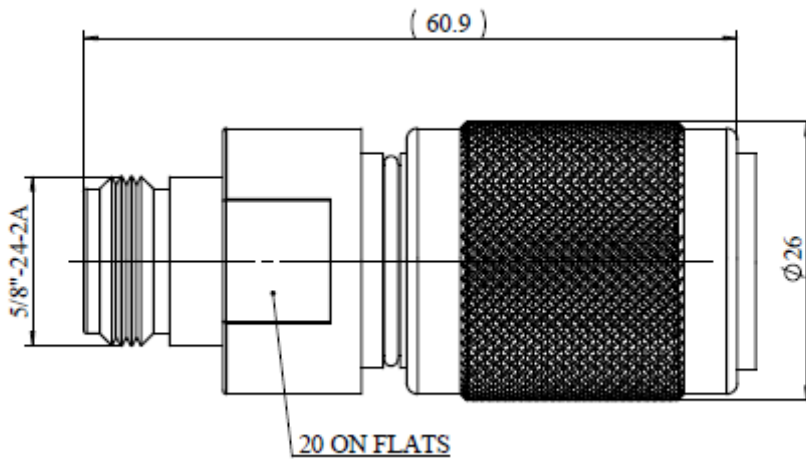
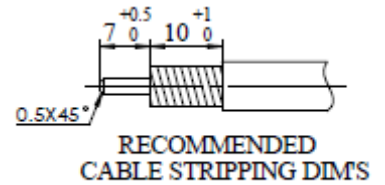


Specification

Product Description	N Female Compression Connector for 1/2" Superflexible Cable	Date: 2019-1-31
Part NO.	AFA458-1	Ver. 1

UNIT: mm



Reference Standard

IEC61169-16

Electrical Performance

Nominal Impedance (Ω)	50
Frequency Range	DC~6GHz
VSWR	$\leq 1.10(0-3\text{GHZ})$ $\leq 1.20(3-6\text{GHZ})$
VSWR(DTF)	$\leq 1.05(0-3\text{GHZ})$ $\leq 1.10(3-6\text{GHZ})$
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 ($m\Omega$)	< 0.8 (Inner Conductor) < 0.4 (Outer Conductor)

Mechanical Performance

Interface Durability	500 Cycles
Retention	≥0.56N
Mating Cycles	500
Tensile Force (Cable-Connector)	400 N
Torsion (Cable-Connector)	4 N.m
Weight	153.17g

Material and Plating

Connector Parts	Material	Plating
Inner Conductor	Spring Copper	Ag 5μm
Outer Conductor	Brass	Copper-tin-zinc 2μm
Insulator	TPX	
O-Ring	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	IP67
RoHS	Compliant(EU and China)

Assembly

Inner conductor Installed and outer conductor Compressed.

Cable Supported	Cable Type Supported
Amphenol	AFY-50-12S
Andrew	FSJ50-4
Draka	RFF1/2"-50
Eupen	EC4-50-HF
RFS	SCF12-50

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.