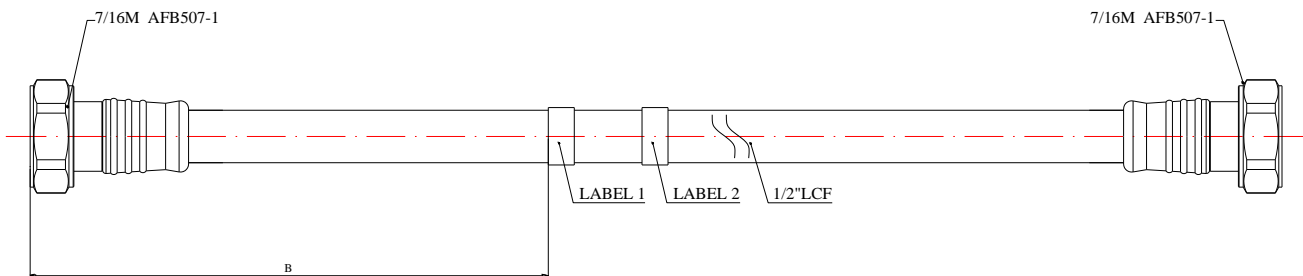


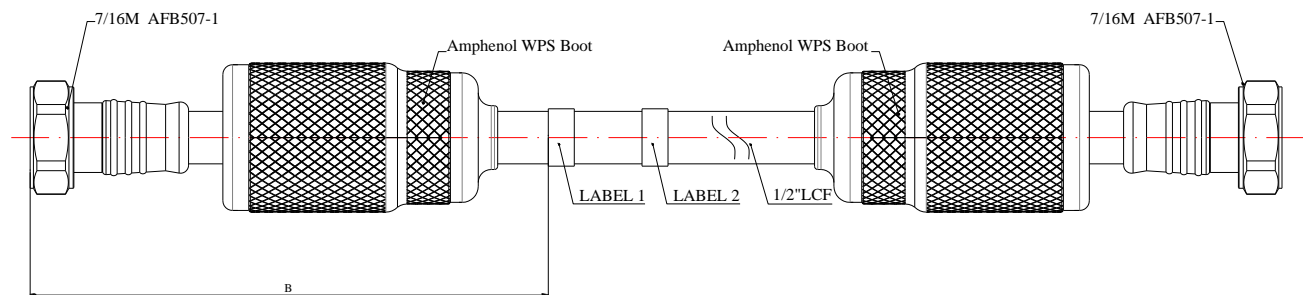
Specification

<b>Drawing NO.</b>	AFS-K12-17 / AFS-K12-17-B	<b>Ver.0</b>	<b>Rev. 1</b>
<b>Part NO.</b>	AFS-DMDM-12-xxFT / AFS-DMWDMW-12-xxFT		
<b>Product Description</b>	7/16M-7/16M, 1/2" Annular Cable jumper	<b>Date:</b> 2020.12.25	
<b>Draft:</b> Pan Guilan <b>AFY/E</b>	<b>Checked:</b> Yu Ying <b>AFY/Q</b>	<b>Approved:</b> Xu Yiming <b>AFY/MR</b>	

**Part NO.:**AFS-DMDM-12-xxFT



**Part NO.:**AFS-DMWDMW-12-xxFT



Label 1 information:

<b>Part NO.</b>	2020-04 MX Amphenol
	P/N:AFS-DMWDMW-12-xxFT
	S/N:Bar Code xxxxxxx

Label 2 information:

Amphenol Fuyang Mexico Factory Made
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## Reference

IEC61169-4(7/16)

## Electrical

Nominal Impedance ( $\Omega$ )	50
Frequency Range (GHz)	0.38-6
Return loss (dB)	$\leq -32(0.38-0.47\text{GHz})$ $\leq -32(0.6-0.96\text{GHz})$ $\leq -28(1.4-2.7\text{GHz})$ $\leq -23(3.4-3.8\text{GHz})$ $\leq -21(5.1-6\text{GHz})$
Attenuation (dB)	$\leq 0.02\text{dB/ft}+0.1\text{dB}(0.824\text{GHz})$ $\leq 0.021\text{dB/ft}+0.1\text{dB}(0.894\text{GHz})$ $\leq 0.0297\text{dB/ft}+0.1\text{dB}(1.7\text{GHz})$ $\leq 0.0302\text{dB/ft}+0.1\text{dB}(1.8\text{GHz})$ $\leq 0.0311\text{dB/ft}+0.1\text{dB}(1.9\text{GHz})$ $\leq 0.0325\text{dB/ft}+0.1\text{dB}(2\text{GHz})$ $\leq 0.0334\text{dB/ft}+0.1\text{dB}(2.1\text{GHz})$
Dynamic PIM with IEC 62037 (2*20W) (dBm)	$\leq -117$
Connector Insertion Loss (dB)	$\leq 0.05(3\text{GHz})$
Insulation Resistance (M $\Omega$ )	$\geq 5000$
Proof Voltage (V)	1000
Screen Efficiency (dB)	$\geq 110$
Power Rating (W)	400W @3GHz

## Mechanical

Nut Torque on 7-16 coupling nut	25 N*m
Spanner flat on 7-16 coupling nut	32mm
Torsion(Cable-Connect)	3.5 N*m
Tensile force(Cable-Connect)	500 N
Flat Plate Crush Strength	$\geq 15\text{N/mm}$
Bending Moment	4N*m
Single Minimum Bending Radius	$\geq 80\text{mm}$
Multiple Minimum Bending Radius	$\geq 125\text{mm}$
Number of Bends, Minimum	15
Cable Length	L (ft)

## Material and

Connector Parts		Material	Plating (Standard)
Connector A 7/16M	Inner Conductor	Spring Copper	Ag 3µm
	Outer Conductor	Brass	Copper-tin-zinc 3µm
Connector B 7/16M	Inner Conductor	Spring Copper	Ag 3µm
	Outer Conductor	Brass	Copper-tin-zinc 3µm
Cable	Inner Conductor	Copper Plated Aluminum	
	Insulation	PE	
	Outer Conductor	Helical Corrugated copper tube	
	Jacket	PE, Contains No Halogen	
Waterproof Boot		Silicone rubber	

## Environment

UV Resistance	IE-68-2-5
Waterproofing Standard	IP68
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
Weather Standard	IEC 68 40/ 85/ 21
Thermal Shock	IEC60068-2-14-Na
Vibration	IEC60068-2-6-Fc
Shock	IEC60068-2-27
RoHS	Compliant

## Testing & Traceability

100% tested and guaranteed as per manufacturer specification. Traceability of VSWR & PIM test data through serial number on the label

## Label information

Label 1	Label 2
<ul style="list-style-type: none"> <li>- Production year month</li> <li>- Manufacturer</li> <li>- Part number</li> <li>- Serial number</li> <li>- Position: B=12 in-16 in</li> </ul>	<ul style="list-style-type: none"> <li>- Manufacturer</li> <li>- "Factory Made"</li> <li>- Position: centred</li> </ul>