

LP-18-400-N Connector Protector

- Eliminates the Need for Separate Cable Connector
- Attaches Directly to LMR®-400 Cable
- Uses EZ-400-X (No Braid Trim) Connector Interface
- DC Pass Multi-Strike Broadband Bidirectional Design
- Fully Weatherized Housing
- Solid Brass Construction
- White Bronze Plated for Durability and Long Life









Cable Connector and Lightning Protector in One!

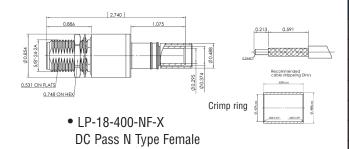
The Times Protect[®] LP-18-400-N series is an exceptional in-line broadband DC pass surge protection design incorporating lightning protection circuitry and the EZ-400-X series crimp style connector interface unit. This combination allowing the in-line surge protector to be attached directly to the LMR[®]-400 cable eliminates the cable connector needed when using conventional lightning protectors. The LP-18-400-N series protectors exhibit outstanding RF performance over the entire frequency spectrum from DC through 6000MHz and the elimination of the extra connector further reduces return loss, insertion loss and lowers cost. In addition, its fully weatherized housing meets the IP-67 standard for outdoor as well as indoor installation.

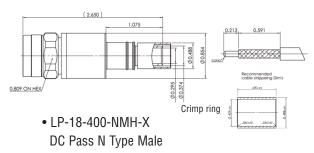
LP-18-400-N Series:

- LP-18-400-NF-X (150W)
 N Female connector on one side and EZ-400-X crimp style interface on the other side bidirectional
- LP-18-400-NMH-X (150W)
 N Male connector on one side and EZ-400-X crimp style interface on the other side - bidirectional

The LP-18-400-N series protectors install easily onto LMR $^{\circledR}$ -400 cable using the standard CST-400 prep tool and either the CT-400/300 crimp tool or the HX-4 crimp handle with the Y1719 (0.429") hex dies.

Times-Protect®





^{*}All Dimensions shown in inches

Installation Tools:

CST-400 Prep Tool CT-400/300 Crimp Tool or HX-4 Crimp Tool with Y1719 (0.429") hex dies





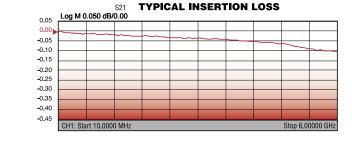


Electrical Specifications				
Impedance	50 Ω			
Frequency Range	DC-6000 MHz			
VSWR/Return Loss	< 1.15:1 / <23dB (DC-6000MHz)			
Insertion Loss	<0.15dB (DC-6000MHz)			
Maximum Surge Current	10kA multiple (8x20µs wave-form)			
Impulse Sparkover	700V (1kV/μs)			
Turn on	180Vdc			
Average Power	150 Watts			
Protection Circuit	DC Pass			
Mechanical / Environmental Specifications				
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Mechanical / Environmental Specifications					
Temp Range Storage/Operating	-40°C - +85°C				
Weatherization	IEC 60068 40/085/21 & IP67				
Thermal Shock	US MIL-STD 202, Meth.107,Cond.				
Vibration	US MIL-STD 202, Meth.204,Cond.B				
Shock	US MIL-STD 202, Meth.213,Cond.l				
RoHS Compliant	Yes				
Wear/Mating Cycles	500 minimum				
Recommended Coupling Nut Torque	7 to 10 lb-in				
Unit Weight	3.4 oz / 95 grams				

Material Specifications					
Component	Material	Plating			
Body	Brass	White Bronze			
Inner Conductor Male	Brass	Silver			
Inner Conductor Female	Phosphor Bronze	Silver			
Washer	Brass	White Bronze			
Coupling Nut	Brass	White Bronze			
Insulator	PTFE				
0-Ring	Silicone Rubber				





Note: IL and RL data without LMR®-400 cable

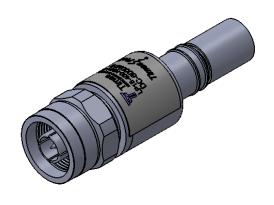


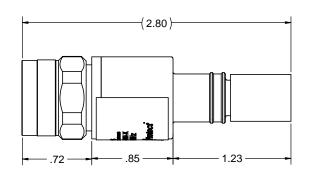
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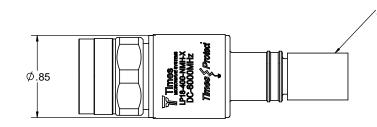
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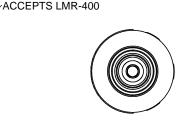
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	Α	RELEASED FOR PRODUCTION	M.E.	03/21/14	M.E.	03/21/14









NOTES:

1. ELECTRICAL PERFORMANCE

IMPEDANCE: 50 OHMS

OPERATING FREQUENCY: DC-6000 MHz VSWR/RETURN LOSS: < 1.15:1 / < -23 dB

INSERTION LOSS: < 0.15 dB

AVERAGE POWER: 150 W MAX SURGE CURRENT: 10 kA MULTIPLE (8/20 us WAVE-FORM)

IMPULSE SPARKOVER: 700 V (1 kV/us)

TURN ON: 180 Vdc

PROTECTION CIRCUIT: DC PASS, BIDIRECTIONAL

2. ENVIRONMENTAL CHARACTERISTICS

STORAGE/OPERATING TEMPERATURE: -40C TO +85C WEATHERIZATION: IP67 VIBRATION: MIL-STD 202, METHOD 204, CONDITION B WEIGHT: 3.4 oz / 95 grams

RoHS COMPLIANT

3. MATERIAL AND FINISH

INNER CONNECTOR MALE: BRASS, SILVER PLATE BODY: BRASS, WHITE BRONZE PLATE

COUPLING NUT: BRASS, WHITE BRONZE PLATE

INSULATOR: PTFE

O-RING: SILICONE RUBBER

INSTALLATION TOOLS:

CST-400 PREP TOOL CT-400/300 CRIMP TOOL OR HX-4 CRIMP TOOL WITH Y1719 (0.429") HEX DIES

	DRAFTSMAN M. ELLIS CHECKER M. ELLIS	03/14/21	TIMES	MICROWAVE	SYSTEMS	
		APPROVED M. ELLIS 03/14/21 UNLESS OTHERWISE SPECIFIED		SURGE PROTECTOR N MALE TO EZ-400-X DC-6000 MHz		
MATERIAL:	MACHINED SURFACES FINISH 3. REMOVE ALL BURRS .005 MAX. MACHINE CORNERS .005 MAX.	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH 32 RMS MAX. REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R.				
MATERIAL.	.XX ± .01 .XX ANGLES ± 1° FRACTION	(± .005	DWG.	DRWG. LP-18-40	0-NMH-X A	
www.dmtonline.dk USED ON ASSY	. DO NOT SCALE DRA	WING	CODE 68999	SCALE: 2:1	SHEET 1 OF 1	