

PulseLARSEN Antennas

Cable Mounts and Connectors



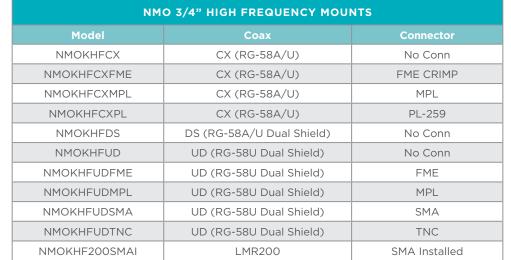




All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.

NMOHF mounts require a 3/4" hole for mounting and include 17' of coax. NMOHF mounts accommodate roof surfaces from 0.1" to .03". NMOHFTHK (thick) mounts accommodates roof surfaces up to 1/2" thick.

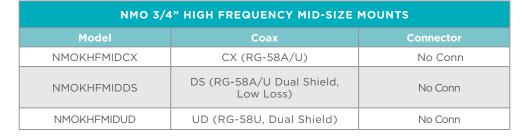






T.	
F Thick Mount Frequency nfiguration	

Configuration





NMO 3/4" HIGH FREQUENCY THICK MOUNTS		
Model	Coax	Connector
NMOKHFCXTHK	CX (RG-58A/U)	No Conn
NMOKHFDSTHK	DS (RG-58A/U Dual Shield)	No Conn

If your antenna has a "tab" or "pin" connector, use the NMOHF mount in the low frequency configuration - leave the center pin and insulator in place as it arrives from the factory.



Configuration

"Tab" connector

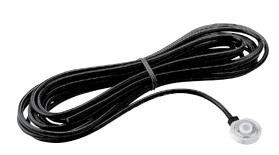


If your antenna has a "high frequency" (HF) connector, use the NMOHF mount

in the high frequency configuration - remove the center pin and insulator.

connecto

NMO 3/4" standard mounts require a 3/4" hole for mounting and include 17' of coax.



NMO 3/4" STANDARD MOUNTS		
Model	Coax	Connector
NMOKNOCONN	CX (RG-58A/U)	No Conn
NMOK	CX (RG-58A/U)	PL-259
NMOKFME	CX (RG-58A/U)	FME
NMOKMPL	CX (RG-58A/U)	MPL Crimp
NMOKDS	DS (RG-58A/U Dual Shield)	No Conn
NMOKDSFME	DS (RG-58A/U Dual Shield)	FME
NMOKUD	UD (RG-58U Dual Shield)	No Conn
NMOKUDFME	UD (RG-58U Dual Shield)	FME
NMOKUDPL	UD (RG-58U Dual Shield)	PL-259T
NMOKUDTNC	UD (RG-58U Dual Shield)	TNC



NMO HIGH FREQUENCY MOUNTS		
Model	Thickness	Cable
NMOHF	0761-2.54 mm Standard	Not included
NMOHFMID	0.761 - 5.90 mm Mid-Thickness	Not included
NMOHFTHK	1.6 - 12.7 mm Greatest Thickness	Not included

All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.

NMOHF round magnetic mounts have the following specifications:

Size: 3.5" Diameter ■ Cable Length: 12' ■ Pull Strength: 80 lbs



NMO HIGH FREQUENCY MAGNETIC MOUNTS		
Model	Coax	Connector
NMOMMRNOCONN	CX (RG-58A/U)	No Conn
NMOMMR	CX (RG-58A/U)	58FCP
NMOMMRFME	CX (RG-58A/U)	FME Crimp
NMOMMRPL	CX (RG-58A/U)	PL-259
NMOMMRMPL	CX (RG-58A/U)	MPL Crimp
NMOMMRTNC	CX (RG-58A/U)	TNC Crimp
NMOMMRBNC	CX (RG-58A/U)	BNC Crimp
NMOMMRN	CX (RG-58A/U)	N Crimp
NMOMMRDS	DS (RG-58A/U Dual Shield)	No Conn
NMOMMRDSFME	DS (RG-58A/U Dual Shield)	FME
NMOMMRDSMPL	DS (RG-58A/U Dual Shield)	MPL Crimp
NMOMMRDSN	DS (RG-58A/U Dual Shield)	N Crimp
NMOMMRDSSMA	DS (RG-58A/U Dual Shield)	SMA
NMOMMRDSSMAR/P	DS (RG-58A/U Dual Shield)	SMARP
NMOMMRDSPL	DS (RG-58A/U Dual Shield)	PL-259T
NMOMMRDSTNC	DS (RG-58A/U Dual Shield)	TNC
NMOMMT200NOCONN	LMR200	No Conn
NMOMMR200SMA	LMR200	SMA
NMOMMR200N	LMR200	N

NMO3/8" mounts have the following specifications:

Mounting: 3/4" hole ■ Mounting Surface: 0.15" to 0.22" thickness ■ Cable Length: 17'



NMO 3/8" THICK MOUNTS		
Model	Coax	Connector
NMOKCX38THK	CX (RG-58A/U)	No Conn
NMOKUD38THK	DS (RG-58A/U Dual Shield)	No Conn

All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.

NMOHFGPS mounts have the following specifications:

Frequency: 1575.4 - 1576.4 MHz Gain: 5 dBic Polarization: Right-Hand Circular / Vertical LNA Gain: 26 dB ± 2 dB Cable: 16.4' RG-174 (GPS) 16.4' RG-58 (NMOHF) VSWR: Less than 2:1 Size: .5 x 2 x 4.5 Voltage: 3 or 5 V DC Color: Black Mounting: 5/8 " Hole

GPS LTE DIRECT MOUNTS		
odel	Connectors	
NMOHFGPSFMENOCONN	FME/No Connector	
NMOHFGPSFMESMA	FME/SMA	
NMOHFGPSNOCONN	No Connectors	
NMOHFGPSSMASMA	SMA/SMA	



NOTE: Specifications listed refer to GPS performance. Additional antenna specifications are dependent on the antenna mounted on the NMO side.

NMO square magnetic mounts have the following specifications:

Size: 3.5" x 3" ■ Cable Length: 12' ■ Pull Strength: 50 lbs



NMO SQUARE MAGNETIC MOUNTS		
Model	Coax	Connector
NMOMMNOCONN	CX (RG-58A/U)	No Conn
NMOMMMPL	CX (RG-58A/U)	MPL
NMOMM	CX (RG-58A/U)	58FCP
NMOMMBNC	CX (RG-58A/U)	BNC
NMOMMPL	CX (RG-58A/U)	PL-259
NMOMMFME	CX (RG-58A/U)	FME
NMOMMDSFME	DS (RG-58A/U Dual Shield)	FME

NMO trunk lid mounts have the following specifications:

Size: 2.5" x 2"

NMO TRUNK LID MOUNTS			
Model	Coax	Connector	Connector
NMOTLP	CX (RG-58A/U)	17 ft.	PL-259
NMOTLPFME	CX (RG-58A/U)	17 ft.	FME
NMOHFTLP200NF	LMR-200	17 ft.	N-Female
NMOHFTLP200NF12	LMR-200	12 ft.	N-Female



	LM MOUNTS	
Model	Coax	Connector
LMKNOCONN	CX (RG-58A/U)	No Conn
LMKFME	CX (RG-58A/U)	FME
LMK	CX (RG-58A/U)	PL-259
LMKDS	DS (RG-58A/U Dual Shield)	No Conn
LMKDSFME	DS (RG-58A/U Dual Shield)	FME
LMKUD	UD (RG-58U Dual Shield)	No Conn
LMKUDFME	UD (RG-58U Dual Shield)	FME



LM magnetic mounts have the following specifications:

Size: 3.5" x 3" ■ Cable Length: 12' ■ Type: 5/16" x 24 THDS ■ Pull Strength: 50 lbs



LMMM MAGNETIC MOUNTS		
Model	Coax	Connector
LMKNOCONN	CX (RG-58A/U)	No Conn
LMKFME	CX (RG-58A/U)	FME
LMK	CX (RG-58A/U)	PL-259
LMKDS	DS (RG-58A/U Dual Shield)	No Conn
LMKDSFME	DS (RG-58A/U Dual Shield)	FME
LMKUD	UD (RG-58U Dual Shield)	No Conn
LMKUDFME	UD (RG-58U Dual Shield)	FME

LM trunk lid mounts have the following specifications:

Size: 2.5" x 2" ■ **Cable Length:** 17' ■ **Type:** 5/16" x 24 THDS

LM TRUNK LID MOUNTS		
Model	Coax	Connector
MTLP	CX (RG-58A/U)	PL-259
LMTLPDS	DS (RG-58A/U Dual Shield)	Order Separately





PO MOUNTS			
Model	Coax	Connector	
POKNOCONN	CX (RG-58A/U)	No Conn	

PO magnetic mounts have the following specifications:

Size: 3.5" x 3" ■ Cable Length: 12' ■ Type: SO-239 Female ■ Pull Strength: 50 lbs

PO MAGNETIC MOUNTS			
Model	Coax	Connector	
POMM	CX (RG-58A/U)	58FCP	



CONNECTORS

SMA CONNECTORS



SMA Crimp

SMACP58

Plug 58/U CABLE GROUP



SMACJ

SMA Crimp Jack 58/U

Jack 58/U

CABLE GROUP

BNC CONNECTORS



BNCCRIMP

BNC Crimp Plug 58/U CABLE GROUP



BNCCJ58

BNC Crimp CABLE GROUP



MODEL

BNC174 CABLE GROUP

BNC Crimp Plug 174/U 174

DESCRIPTION

N CONNECTORS



DESCRIPTION

MODEL

NCRIMP N Crimp Plug 58/U



MODEL

N8 N Clamp Plug 8/U CABLE GROUP



MODEL

NCBJ58 CABLE GROUP DESCRIPTION N Crimp Blk Jack 58/U

TNC CONNECTORS

CABLE GROUP



TNCCRIMP

TNC Crimp Plug 58/U CABLE GROUP



TNC CABLE GROUP

TNC Clamp Plug 58/U 58



TNCCJ CABLE GROUP TNC Crimp Jack 58/U 58



TNCCBJ TNC Crimp Blk Jack 58/U CABLE GROUP





PulseLARSEN Antennas

1-800-ANTENNA (268-3662)

When you need an antenna, what better way than to remember 1-800-ANTENNA (268-3662). Our knowledgeable Customer Support staff is available to assist you.

For our international customers:

PHONE +1.360.944.7551

EMAIL

Americas: antennas.us@pulseelectronics.com **Europe:** antennas.eu@pulseelectronics.com Asia: antennas.as@pulseelectronics.com

PULSE No-Nonsense™ Warranty

POLICE

Every effort is made to assure the integrity and long life of each Pulse product. In the unfortunate event a problem does occur, you will find us ready to make it right!

Duration of warranty is one year from date of purchase.

Pulse will repair or replace without charge any Larsen antenna product which fails for any reason during the warranty period. Pulse is not responsible for any incidental or consequential damages due to failure of the antenna under this warranty or any implied warranty. This exclusion may not apply to all areas of the USA or Canada.

CONNECTORS

UHF CONNECTORS



DESCRIPTION MPLCRIMP M/UHF Crimp

Plug 58/U CABLE GROUP 58



MPLCP M/UHF Crimp Plug 174/U CABLE GROUP 174



MPLCJ58 M/UHF Crimp Jack 58/U

CABLE GROUP 58 FME CONNECTORS



FMECP58 FME Crimp Plug 58/U CABLE GROUP 58

MODEL DESCRIPTION

FMECRIMP FME Crimp Jack 58/U CABLE GROUP 58

MODEL DESCRIPTION

FMECJ174 FME Crimp Jack 174/U

CABLE GROUP 174



PL2598PHN UHF Solder

CABLE GROUP

Plug PL 259/U



MODEL DESCRIPTION

PL259T

58FCP

CABLE GROUP

Plug PL259/U Teflon & Silver UG175 adapter

8/58

UHF Solder

MODEL DESCRIPTION PL259 UHF Solder

Plug PL259/U with UG 175 adapter CABLE GROUP



FB FME adapter to

BNC plug



FT FME adapter to TNC plug



mini-UHF plug

MODEL DESCRIPTIONA

PLCP **UHF** Crimp Plug 58/U CABLE GROUP



UHF FCP Plug 58/U CABLE GROUP 58



MODEL DESCRIPTION PL2598 **UHF** Solder Plug PL259/U, Teflon & Silver Plate CABLEGROUP 8/58



N plug

FΡ







UHF Reducing UG175 adapter 58/U CABLE GROUP 58



J/J





♥ Connect with us on twitter: **PulseLarsen1**

PARTS & ACCESSORIES





6 x 32

8 x 32

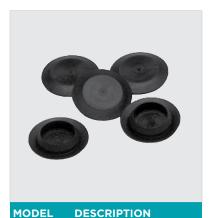


NMO mount adapter

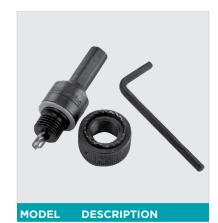




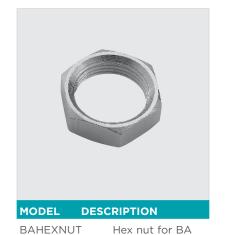
MODEL DESCRIPTION GROMMETS Qty 100 plastic grommet secures/ centers coax, 3/4" hole



HP34 Plastic hole plug for 3/4" hole HP38 Plastic hole plug for 3/8" hole



3/4" hole saw fits 3/8" or larger drills

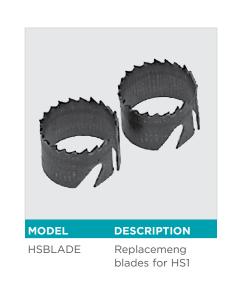


Hex nut for BA





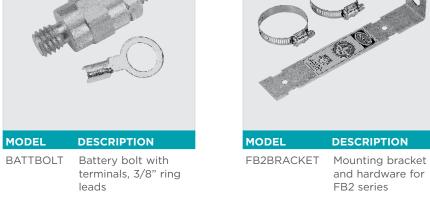
hardware



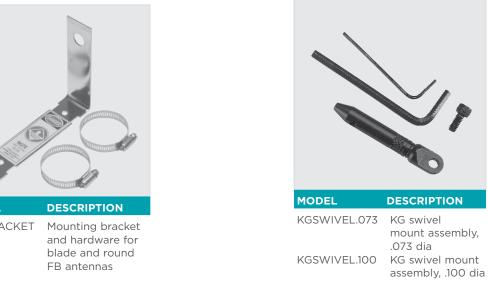


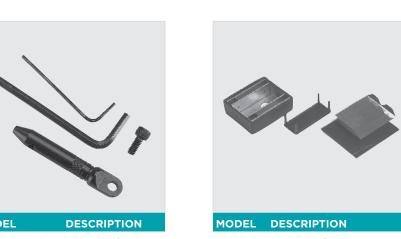












Rectangular mag mount housing, 3/4" hole



NMOBRASSRING Nickel plated brass ring for NMO and NMOHF mounts

PARTS & ACCESSORIES



NMOCAPB Rain cap for NMO mount



HFCENTERCONTACT

NMOHF Center

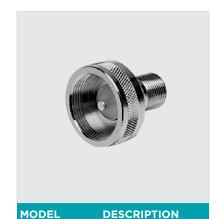
Contacts and

Insulators - 10 each

DESCRIPTION

MODEL

MODEL



NMOTEST1 Test adapter for NMO mount

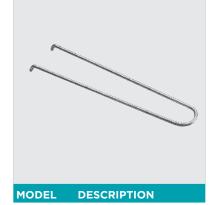


RGOMANT

Rubber gasket for OM bases



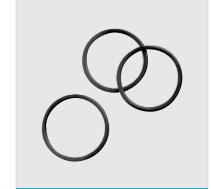
RGSS Rubber SuperSeal gasket for MakroBlend® coils / bases



SPANNER Spanner wrench for PO and NMOK mounts



OCBRACKET 3" Tall bracket for ceiling or wall mount, Cool Grey

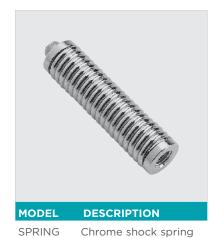


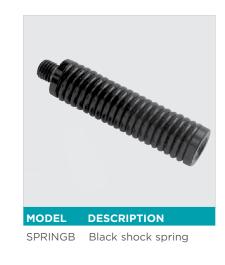
OLMMNT	O ring for LM mount		
ONMOANT	O ring for NMO		
	antennas/bases		
ONMOMNT	O ring for NMO mount		
OPOMNT	O ring for PO mount		

DESCRIPTION



MODEL	DESCRIPTION
QCONE.073	Chrome Q cone / Q base, .073 dia.
QCONE.100	Chrome Q cone / Q base, .100 dia.
QCONE.125	Chrome Q cone / Q base, .125 dia.

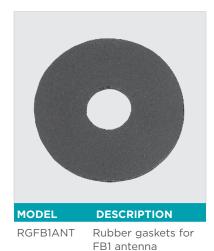








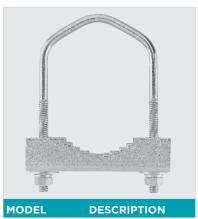
MODEL	DESCRIPTION
QCONE.073B	Black Q cone / Q base, .073 dia
QCONE.100B	Black Q cone / Q base, 100 dia.
QCONE.125B	Black Q cone / Q base, 125 dia



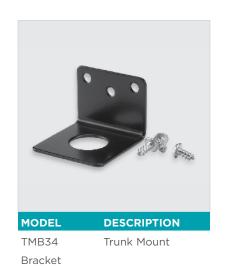




WASUCTIONCUP
Suction cup mounts
for WA700/2700
Series - 2 per package



YAGIKITHD Mounting hardware for 2 1/2" pipe for YA3, YA5 and YA6 antennas



Trunk Mount

(Black)

TBM34B

Bracket



RG-174 Small Diameter Coax

RG-174 is the industry standard for applications requiring a small diameter, highly flexible coax. Frequently used in mobile mag mount applications. Subject to higher losses at higher frequencies. Good performance for environmental variations but lower in overall ruggedness.

Recommended Applications

Mobile/Portable less than 900 MHz where flexibility and small diameter is important.

Larsen Part Number StockingLengths

1000'/Spool Cut to order



This RG-8-sized cable uses a stranded cen-

ter conductor with a polyethylene dielectric and PVC jacket. Built to Mil Specs this cable is used in all Larsen UHF/VHF products targeted for outdoor installation.

Recommended Applications

For lower frequency applications requiring high ruggedness.

Larsen Part Number Stocking Lengths RG-213 500' or 1000'/Spool Cut to order

RG-58U - Low Loss Dual Shield with Solid Center Conductor (UD)

This is Larsen's premium coax for 800 and 900 MHz applications. The solid center conductor (20 AWG) is easy to use with all connectors. Digital applications benefit from the 100% Duofoil aluminum shield. The shield is not glued to the dielectric making it easier to peel back for connector installation. The braid is 95% coverage. This cable is standard for most mounting kits over 800 MHz and can be special ordered with other frequencies. Uses standard RG-58

Recommended Applications

For all applications at 800 MHZ and above.

Larsen Part Number Stocking Lengths UD Coax 1000'/Spool Cut to order

RG-58A/U **CX Standard Coax**

The industry standard in quality, value-priced coax. Stranded center conductor offers good flexibility and long-life under most conditions. Not typically recommended for applications above 512 MHz due to higher losses. Uses standard RG-58 connectors.

Recommended Applications

General applications under 512 MHz. First choice for value priced coax.

Larsen Part Number Stocking Lengths 1000'/Spool CX Coax Cut to order

RG-58A/U - "Digi-Shield" **Low Loss Braided Center**

Employs two shields, consisting of a full aluminum/mylar wrap covered by a braid. This combination of shields, plus low-loss dielectric material and stranded center conductor makes an excellent choice for mobile applications. Performance features include low-loss and high flexibility. Uses standard RG-58 connectors.

Recommended Applications

Higher performance applications where lower loss and flexibly are important. Recommended for applications above

Larsen Part Number Stocking Lengths 1000'/Spool DS Coax Cut to order

TECHNICAL CHARACTERISTICS OF INSULATION AND JACKET COMPOUNDS

PVC

COAX SPECIFICATION COMPARISON

Sometimes referred to as vinyl or polyvinyl chloride. Extremely high or low temperature properties cannot be found in one formulation. Certain formulations may have -55° C to +105° C rating. Other common vinyls may have -20° C to $+60^{\circ}$ C. There are many formulations for the variety of different applications. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values can vary from 3.5 to 6.5.

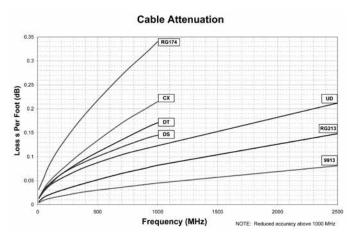
POLYETHYLENE (SOLID AND FOAM)

A very good insulation in terms of electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density — low-density being the most flexible, and high-density, highmolecular weight formulation being very hard. Moisture resistance is rated excellent. Correct Brown and Black formulations have excellent weather resistance. The dielectric constant is 2.3 for solid insulation and 1.64 for foam designs. Flame retardant formulations are available with dielectric constants ranging from about 1.7 for foam flame retardant to 2.58 solid flame retardant polyethylene.

TEFLON

This material has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means long wire and cable lengths are available. TFE Teflon is extrudable in hydraulic ram-type process. Lengths are limited due to amount of material in the ram, thickness of the insulation and preform size. TFE must be extruded over a silver- or nickelcoated wire. The nickel- and silvercoated designs are rated 260° C and 200° C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.

COMPARATIVE PROPERTIES OF INSULATION AND JACKET **POLYETHYLENE** LOW-DENSITY Oxidation Resistance Ε Ε Heat Resistance G-E G G-E Oil Resistance F P-G Low Temperature Flexibility Ε G-E Weather. Sun Resistance F Ε Ε Ozone Resistance Abrasion Resistance F-G G F-G Ε **Electrical Properties** Flame Resistance Р F G-E **Nuclear Radiation Resistance** Ε Water Resistance F-G Acid Resistance G-E G-E G-E G-E Alkali Resistance Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) P G-E Resistance Benzol, Toluol, Etc., (Aromatic Hydrocarbons) P-F Р Resistance Degreaser Solvents (Halogenated Hydrocarbons) P-F G Resistance Alcohol Resistance G-E Е P-G G **Underground Burial**



NOMINAL TEMPERATURE RANGE INSULATING AND JACKETING COMPOUNDS						
Compound	Low	High	Low	High		
Polyethylene - Solid	-60° C	80°C				
Polyethylene - Foam	-60° C	80° C				
FEP Teflon	-70° C	200° C				
PVC	-20° C	80° C	-55° C	105° C		
TFE Teflon	-70° C	260° C				





PulseLARSEN
Antennas

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