PulseLARSEN Antennas

Cable Mounts and Connectors







YOUR INTRODUCTION TO PULSELARSEN CABLE MOUNTS.
Want to learn more? Visit our website at pulselarsenantennas.com

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.



NMOHF Mount Low Frequency Configuration

NMOHF Mount

High Frequency Configuration

High Frequency

Configuration



NMOHF Thick Mount NMOHF Thick Mount Low Frequency Configuration

"Pin'

connector



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.









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



| NMO 3/4" STANDARD MOUNTS | | | |
|---------------------------|---|--|--|
| Coax | Connector | | |
| CX (RG-58A/U) | No Conn | | |
| CX (RG-58A/U) | PL-259 | | |
| CX (RG-58A/U) | FME | | |
| CX (RG-58A/U) | MPL Crimp | | |
| DS (RG-58A/U Dual Shield) | No Conn | | |
| DS (RG-58A/U Dual Shield) | FME | | |
| UD (RG-58U Dual Shield) | No Conn | | |
| UD (RG-58U Dual Shield) | FME | | |
| UD (RG-58U Dual Shield) | PL-259T | | |
| UD (RG-58U Dual Shield) | TNC | | |
| | Coax CX (RG-58A/U) CX (RG-58A/U) CX (RG-58A/U) CX (RG-58A/U) DS (RG-58A/U Dual Shield) DS (RG-58A/U Dual Shield) UD (RG-58U Dual Shield) UD (RG-58U Dual Shield) UD (RG-58U Dual Shield) | | |

| NMO 3/4" HIGH FREQUENCY MOUNTS | | | |
|--------------------------------|---------------------------|---------------|--|
| Model | Coax | Connector | |
| NMOKHFCX | CX (RG-58A/U) | No Conn | |
| NMOKHFCXFME | CX (RG-58A/U) | FME CRIMP | |
| NMOKHFCXMPL | CX (RG-58A/U) | MPL | |
| NMOKHFCXPL | CX (RG-58A/U) | PL-259 | |
| NMOKHFDS | DS (RG-58A/U Dual Shield) | No Conn | |
| NMOKHFUD | UD (RG-58U Dual Shield) | No Conn | |
| NMOKHFUDFME | UD (RG-58U Dual Shield) | FME | |
| NMOKHFUDMPL | UD (RG-58U Dual Shield) | MPL | |
| NMOKHFUDSMA | UD (RG-58U Dual Shield) | SMA | |
| NMOKHFUDTNC | UD (RG-58U Dual Shield) | TNC | |
| NMOKHF200SMAI | LMR200 | SMA Installed | |

| NMO 3/4" HIGH FREQUENCY MID-SIZE MOUNTS | | |
|---|--|-----------|
| Model | Coax | Connector |
| NMOKHFMIDCX | CX (RG-58A/U) | No Conn |
| NMOKHFMIDDS | DS (RG-58A/U Dual Shield, Low Loss) | No Conn |
| NMOKHFMIDUD | UD (RG-58U, Dual Shield) | No Conn |

| 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 "high frequency" (HF) connector, use the NMOHF mount

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







NMOMM NMOM NMOMM NMOMMR NMOMMR NMOMM NMOMMR NMOMMRDS NMOMME NMOMMRI NMOMMT200 NMOMMR2 NMOMMF

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



| 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

| NMO HIGH FREQUENCY MAGNETIC MOUNTS | | | |
|------------------------------------|---------------------------|-----------|--|
| lel | Coax | Connector | |
| NOCONN | CX (RG-58A/U) | No Conn | |
| MMR | CX (RG-58A/U) | 58FCP | |
| 1RFME | CX (RG-58A/U) | FME Crimp | |
| MRPL | CX (RG-58A/U) | PL-259 | |
| 1RMPL | CX (RG-58A/U) | MPL Crimp | |
| 1RTNC | CX (RG-58A/U) | TNC Crimp | |
| 1RBNC | CX (RG-58A/U) | BNC Crimp | |
| IMRN | CX (RG-58A/U) | N Crimp | |
| MRDS | DS (RG-58A/U Dual Shield) | No Conn | |
| RDSFME | DS (RG-58A/U Dual Shield) | FME | |
| RDSMPL | DS (RG-58A/U Dual Shield) | MPL Crimp | |
| 1RDSN | DS (RG-58A/U Dual Shield) | N Crimp | |
| RDSSMA | DS (RG-58A/U Dual Shield) | SMA | |
| SSMAR/P | DS (RG-58A/U Dual Shield) | SMARP | |
| RDSPL | DS (RG-58A/U Dual Shield) | PL-259T | |
| RDSTNC | DS (RG-58A/U Dual Shield) | TNC | |
| ONOCONN | LMR200 | No Conn | |
| 200SMA | LMR200 | SMA | |
| R200N | LMR200 | N | |

NMO3/8" mounts have the following specifications:

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

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.



| LM MOUNTS | | |
|-----------|---------------------------|-----------|
| Model | Соах | 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



| Model |
|----------|
| LMKNOCOM |
| LMKFME |
| LMK |
| LMKDS |
| LMKDSFMI |
| LMKUD |
| LMKUDFM |
| |

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 | Соах | 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 | |

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 |



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 |



| PO magnetic mo | unts have the following specifications: |
|-------------------|---|
| Size: 3.5″ x 3″ ■ | Cable Length: 12' Type: SO-239 Female |

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





| LMMM MAGNETIC MOUNTS | | | |
|----------------------|---------------------------|-----------|--|
| | Coax | Connector | |
| N | CX (RG-58A/U) | No Conn | |
| | CX (RG-58A/U) | FME | |
| | CX (RG-58A/U) | PL-259 | |
| | DS (RG-58A/U Dual Shield) | No Conn | |
| Ē | DS (RG-58A/U Dual Shield) | FME | |
| | UD (RG-58U Dual Shield) | No Conn | |
| Ξ | UD (RG-58U Dual Shield) | FME | |



| PO MOUNTS | | | |
|-----------|---------------|-----------|--|
| 1odel | Coax | Connector | |
| NOCONN | CX (RG-58A/U) | No Conn | |



CONNECTORS

SMA CONNECTORS



SMACP58 SMA Crimp CABLE GROUP

Plug 58/U 58

MODEL SMACJ CABLE GROUP

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DESCRIPTION
SMA Crimp
Jack 58/U
58
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BNC CONNECTORS



Plug 58/U

58

CABLE GROUP

MODEL DESCRIPTION BNCCJ58 BNC Crimp

Jack 58/U CABLE GROUP 58



Plug 174/U 174





Plug 58/U CABLE GROUP 58



N Clamp Plug 8/U CABLE GROUP 8



CABLE GROUP 58

TNC CONNECTORS



TNCCRIMP TNC Crimp Plug 58/U CABLE GROUP 58



TNCCBJ TNC Crimp Blk Jack 58/U CABLE GROUP 58



TNC

TNC Clamp Plug 58/U CABLE GROUP 58



TNCAP TNC Angle Plug 58/U CABLE GROUP 58



CABLE GROUP



TNC Crimp Jack 58/U 58

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:

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PULSE No-Nonsense[™] Warranty

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



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

| MODEL | DESCRIPTION | MODEL |
|-------------|------------------------|-------------|
| FMECP58 | FME Crimp Plug 58/U | FMECRIMP |
| CABLE GROUP | 58 | CABLE GROUP |



PL2598PHN UHF Solder Plug PL 259/U CABLE GROUP 8



MODEL

PL259T

DESCRIPTION UHF Solder Plug PL259/U Teflon & Silver UG175 adapter CABLE GROUP 8/58



PL259

DESCRIPTION UHF Solder Plug PL259/U with UG 175 adapter CABLE GROUP 8/58



MODEL DESCRIPTIONA

| PLCP | UHF Crimp |
|-------------|-----------|
| | Plug 58/U |
| CABLE GROUP | 58 |



Plug 58/U CABLE GROUP 58



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







MODEL DESCRIPTION UG175 UHF Reducing adapter 58/U CABLE GROUP 58



PL258

DESCRIPTION UHF adapter J/J



UHFBJJ

UHF bulkhead



FSF

FME adapter to SMA jack

| IODEL | |
|-------|--|
| Ρ | |
| | |
| | |

| DESCRIPTION | MODEL | DESCRIPTION | |
|------------------------|----------|-------------------------|--|
| FME Crimp Jack 58/U | FMECJ174 | FME Crimp Jack 174/U | |

174/U CABLE GROUP 174



58

DESCRIPTION

FME adapter to TNC plug



DESCRIPTION

FME adapter to UHF plug



FSM

DESCRIPTION

FME adapter to SMA plug

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PARTS & ACCESSORIES





DESCRIPTION BSA/BA/SO-239 to NMO mount adapter

A4



ΒA Bulkhead mount adapter with hardware



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

hole



MODEL HP34 HP38



BAHEXNUT



DESCRIPTION MODEL BALL1B

Black teardrop rod tip for W490, W540 tapered rods BALL2B Black teardrop rod tip for Q and NMOQ antennas BALL3B Black teardrop rod tip for .100 diameter non-tapered rods BALL4 Rod tip WBQ800 antennas



BANOHARDWARE Bulkhead mount adapter without hardware



MODEL DESCRIPTION HSBLADE

Replacemeng blades for HS1

MODEL KGREINSTALL



DESCRIPTION MODEL BATTBOLT

Battery bolt with terminals, 3/8" ring leads



DESCRIPTION FB2BRACKET Mounting bracket and hardware for FB2 series



FB3BRACKET Mounting bracket and hardware for blade and round FB antennas



DESCRIPTION

KGSWIVEL.073 KG swivel mount assembly, .073 dia KGSWIVEL.100 KG swivel mount assembly, .100 dia



MODEL DESCRIPTION MM34 Rectangular mag mount housing, 3/4" hole

DESCRIPTION

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





KG glassmount reinstallation kit die cut tape



mount reinstallation kit die cut tape



brass ring for NMO and NMOHF mounts

PARTS & ACCESSORIES



Rain cap for NMO mount



MODEL DESCRIPTION HFCENTERCONTACT

NMOHF Center Contacts and Insulators - 10 each



MODEL NMOTEST1 Test adapter for NMO mount

DESCRIPTION



MODEL

Rubber gasket for OM bases





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



DESCRIPTION MODEL 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



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

Chrome shock spring



QCONE.100B

QCONE.125B

Q base, .073 dia. Black Q cone / Q base, .100 dia. Black Q cone / Q base, .125 dia



DESCRIPTION RGFB1ANT Rubber gaskets for FB1 antenna





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



YAGIKITHD



DESCRIPTION

Rubber SuperSeal gasket for MakroBlend® coils / bases



SPANNER Spanner wrench for PO and NMOK mounts



SPRINGB Black shock spring



Mounting hardware for 2 1/2" pipe for







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 RG-174 Cut to order

RG-213 - Stranded Bare **Braid Mil Spec QPI**

This RG-8-sized cable uses a stranded center 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 500' or 1000'/Spool RG-213

Cut to order

TECHNICAL CHARACTERISTICS OF INSULATION AND JACKET COMPOUNDS

PVC

polyvinyl chloride. Extremely high or

be found in one formulation. Certain

formulations may have -55° C to +105° C

rating. Other common vinyls may have

formulations for the variety of different

applications. The many varieties of PVC

low temperature properties cannot

 -20° C to $+60^{\circ}$ C. There are many

also differ in pliability and electrical

properties. The price range can vary

values can vary from 3.5 to 6.5.

accordingly. Typical dielectric constant

Sometimes referred to as vinyl or

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.

COMPARATIVE PROPERTIES OF INSULATION AND JACKET

| | PVC LOW-DENSITY | POLYETHY |
|--|--------------------|----------|
| Oxidation Resistance | E | E |
| Heat Resistance | G-E | G |
| Oil Resistance | F | G-E |
| Low Temperature Flexibility | P-G | E |
| Weather, Sun Resistance | G-E | E |
| Ozone Resistance | E | E |
| Abrasion Resistance | F-G | G |
| Electrical Properties | F-G | E |
| Flame Resistance | E | Р |
| Nuclear Radiation Resistance | F | G-E |
| Water Resistance | F-G | E |
| Acid Resistance | G-E | G-E |
| Alkali Resistance | G-E | G-E |
| Gasoline, Kerosene, Etc. | | |
| (Aliphatic Hydrocarbons) Resistance | Р | G-E |
| Benzol, Toluol, Etc., | | |
| (Aromatic Hydrocarbons) Resistance | P-F | Ρ |
| Degreaser Solvents | | |
| (Halogenated Hydrocarbons) Resistance | P-F | G |
| Alcohol Resistance | G-E | E |
| Underground Burial | P-G | G |

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

Recommended Applications

and can be special ordered with other

frequencies. Uses standard RG-58

For all applications at 800 MHZ and above.

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



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 800 MHz.

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



POLYETHYLENE (SOLID AND FOAM)

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.







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 | | |

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