



Fire Rated SHV Plug to SHV Plug Low Loss Cable Using LMR-195-FR Coax

TECHNICAL DATA SHEET

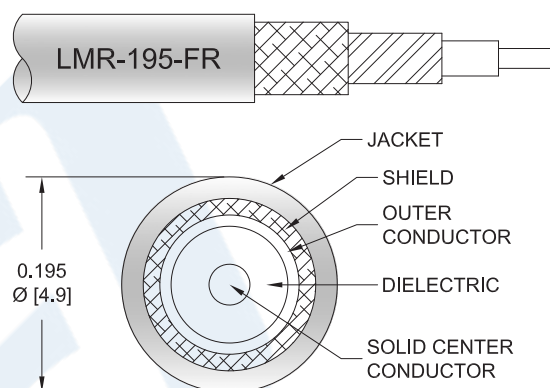
PE3C4352

Configuration

- Connector 1: SHV Plug
- Connector 2: SHV Plug
- Cable Type: LMR-195-FR
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4352 SHV plug to SHV plug cable using LMR-195-FR coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SHV to SHV cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3C4352 SHV plug to SHV plug cable assembly operates to 300 MHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated SHV Plug to SHV Plug Low Loss Cable Using LMR-195-FR Coax PE3C4352](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω /1000ft [Ω /Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3C4352	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.04	0.06	0.06	dB/ft	
			0.09	0.12	0.19	0.21	dB/m	
PE3C4352-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.27	dB	0.098
PE3C4352-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.32	0.33	dB	0.127
PE3C4352-36	36 inch	Insertion Loss (Typ.)	0.28	0.31	0.38	0.39	dB	0.155
PE3C4352-48	48 inch	Insertion Loss (Typ.)	0.3	0.34	0.43	0.45	dB	0.183
PE3C4352-60	60 inch	Insertion Loss (Typ.)	0.33	0.38	0.49	0.51	dB	0.211

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.098 pounds
Additional Weight per Inch:	0.00234 pounds

Mechanical Specifications

Cable Assembly

Weight	0.098 lbs [44.45 g]
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Cable

Cable Type	LMR-195-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	FRPE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	SHV Plug Bayonet	SHV Plug Bayonet
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C4352

How to Order

Part Number Configuration:

PE3C4352

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C4352-12 = 12 inches long cable
PE3C4352-100cm = 100 cm long cable

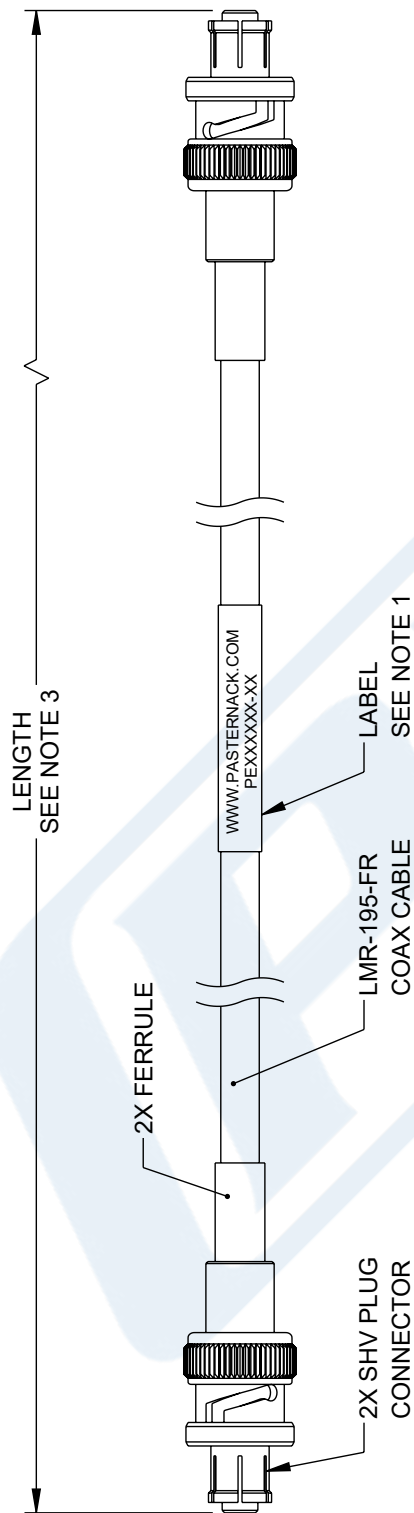
Fire Rated SHV Plug to SHV Plug Low Loss Cable Using LMR-195-FR Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated SHV Plug to SHV Plug Low Loss Cable Using LMR-195-FR Coax PE3C4352](#)

URL: <https://www.pasternack.com/fire-rated-shv-plug-to-shv-plug-low-loss-cable-using-lmr-195-fr-pe3c4352-p.aspx>

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/13/2023	KGLEBOVA	AGANWANI



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6
INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES:	
	$X \pm .02$ [5]	FRACTIONS
	$XX \pm .02$ [0.5]	+ / -32
	$XXX \pm .005$ [0.13]	ANGLES $\pm 1^\circ$
	CABLE LENGTH TOLERANCES:	
	≤ 12 [305] $\pm .12$ [51] / -0 >12 [305] $\pm .25$ [127] / -0 >60 [1524] ± 1.30 [3048] $\pm .40$ [102] / -0 >120 [3048] ± 2.60 [7620] $\pm .80$ [152] / -0 >300 [7620] $\pm .45\%$ / -0	
	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY	

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE NONE	SHEET 1 OF 1
DESCRIPTION FIRE RATED SHV PLUG TO SHV PLUG LOW LOSS COAXIAL USING LMR-195-FR COAX			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3C4352
			REV
			A