



## 7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB

### RF Connectors Technical Data Sheet

PE45640

#### Configuration

- 7/16 DIN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-C600, .600 inch, LMR-600, LMR-600-DB
- 1 1/4 in. Hex

#### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.15:1
- Silver Plated Brass Contact
- 3µ m minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE45640 7/16 DIN male right angle connector with crimp/solder attachment for PE-C600, .600 inch, LMR-600 and LMR-600-DB is part of our full line of RF components available for same-day shipping. Our 7/16 DIN male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.15:1. Its right angle body geometry allows for easier connections in tight spaces.

Our 7/16 DIN male right angle connector PE45640 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.15:1	
Insertion Loss			0.05	dB
Dielectric Withstanding Voltage (AC)			4,000	Vrms

#### Mechanical Specifications

Weight	0.282 lbs [127.91 g]
Mating Torque	221 in-lbs [24.97 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB PE45640](#)



7/16 DIN Male Right Angle Connector Crimp/Solder  
Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB

RF Connectors  
Technical Data Sheet

PE45640

**Material Specifications**

Description	Material	Plating
Contact	Brass	Silver 3μ m minimum
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 3μ m minimum
Body	Brass	Tri-Metal 3μ m minimum
Coupling Nut	Brass	Tri-Metal 3μ m minimum

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

Shock

MIL-STD 202,Meth.213, Cond. I

Vibration

MIL-STD 202,Meth.204, Cond. B

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

**Plotted and Other Data**

Notes:

7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB 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: [7/16 DIN Male Right Angle Connector Crimp/Solder Attachment for PE-C600, .600 inch, LMR-600, LMR-600-DB PE45640](#)

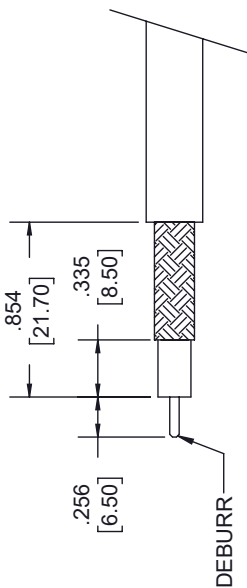
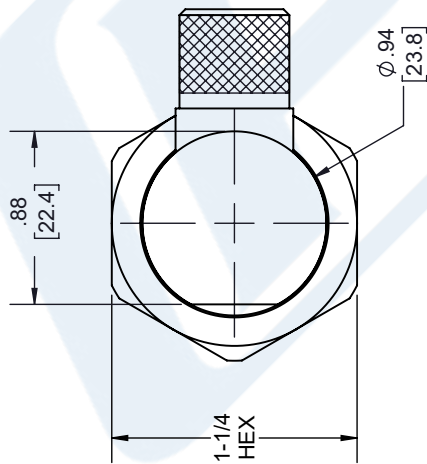
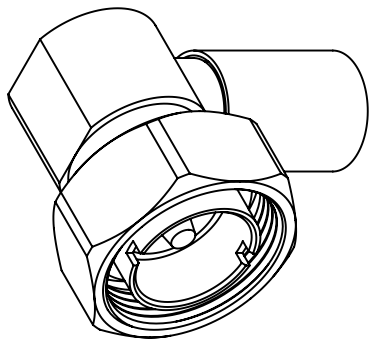
URL: <https://www.pasternack.com/7-16-din-male-pe-c600-.600-connector-pe45640-p.aspx>

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# PE45640 CAD Drawing

7/16 DIN Male Right Angle Connector Crimp/Solder Attachment  
for PE-C600, .600 inch, LMR-600, LMR-600-DB

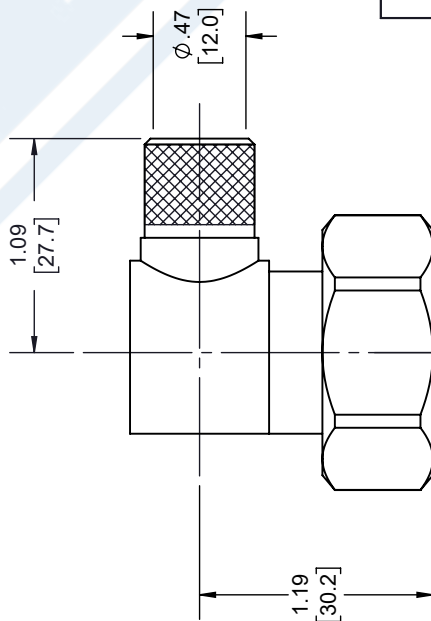
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE45640	2/3/2021	S. ELLIS



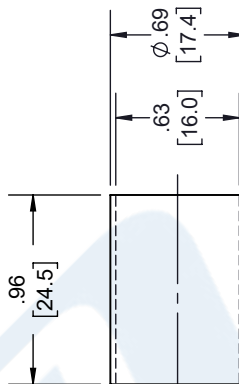
## STRIPPING DIMENSIONS

### NOTES:

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
  - FERRULE: .610 [15.49] HEX. CRIMP TOOL.
  - CONTACT: SOLDER.



## FERRULE



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

### TOLERANCES:

X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [ .51] ±.1/32  
.XXX = ±.005 [ .13] ANGLES ± 1°

### CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



THIRD-ANGLE PROJECTION  
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SHEET 1 OF 1

SCALE N/A

REV A



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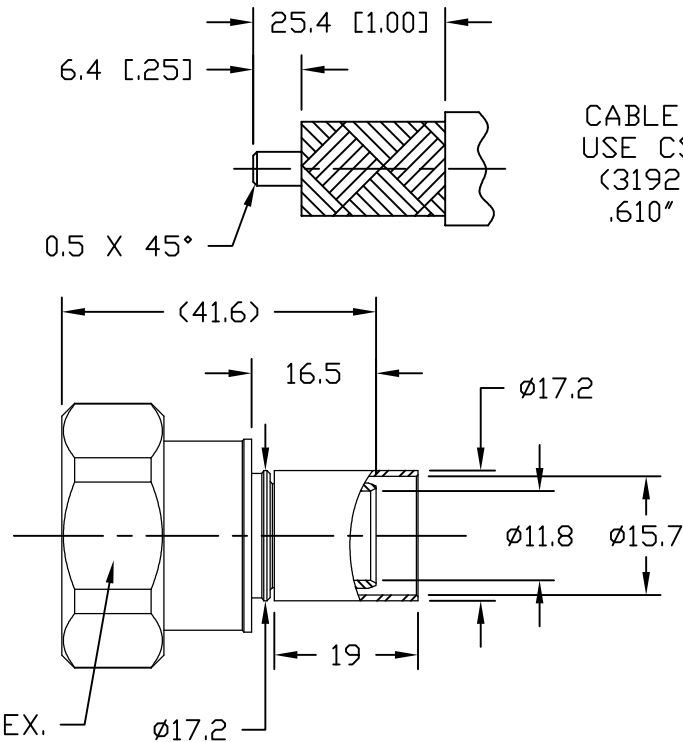
Fax: 1.949.261.7451  
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ITEM NO. PE45640

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	5/23/11	J.D.B.	6/9/11
B	CHANGED PER CDC #37302	D.J.H.	3/22/13	J.D.B.	3/25/13



CABLE PREP.  
USE CST-600  
(3192-052)  
.610" HEX.

Reference Standard IEC60169-4

**I. Electric Performance**

Nominal Impedance( $\Omega$ ):	50
Frequency Range:	DC-3GHz
VSWR:	$\leq 1.15$
Insert Loss(dB):	$\leq 0.05$
Insulation resistance(M $\Omega$ )	$\geq 10000$
Proof Voltage(V)	2500
Conductor resistance(m $\Omega$ )	outer conductor <0.2 inner conductor <0.8

**II. Mechanical Performance**

Nut Torque	25N.m
(Nut)Whorl pull	1000N
Tensile force(cable-connect)	500N
Torsion(cable-connect)	5N.m

**III. Material and plating**

Component	Material	Plating
Inner conductor	Spring Copper	Ag 5 $\mu$ m
Outer conductor	Brass	Copper-tin-zinc 2 $\mu$ m
Tube	Copper	Copper-tin-zinc 2 $\mu$ m
Nut	Brass	Nickel 5 $\mu$ m
Gasket	Silicone Rubber	
Insulator	PTFE	

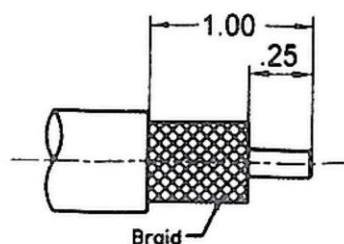
**IV. Environment**

Temp. range	-55°C~+155°C
Weather standard	IEC 60068 55 / 155/ 56
Thermal shock	US MIL-STD 202,Meth.107,Cond.B
Vibration	US MIL-STD 202,Meth.204,Cond.B
Shock	US MIL-STD 202,Meth.213,Cond.I
Waterproofing standard	IP68
ROHS Compliant	

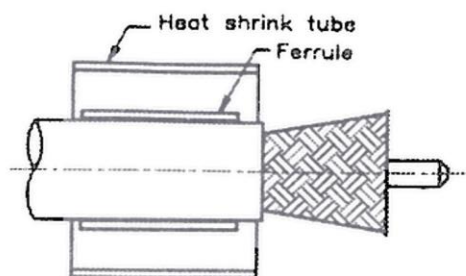
**V. Assembly: inner conductor installed and outer conductor crimped**

MATL:		UNLESS OTHERWISE SPECIFIED		DFTM. K. A. M.	TIMES MICROWAVE SYSTEMS					
		ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± N/A .XXX ± N/A ANGLES ± 1° FRACTIONS ± N/A		DATE 5/23/11						
USED ON: 0-0				CHKD. J. D. B.	<b>EZ-600-716M-X</b> 7-16 MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM					
				DATE 6/9/11						
SCALE: N/A		DWG. SIZE A		DO NOT SCALE DRAWING		CODE IDENT 68999	DATE 6/9/11	SHT 1 of 1	SD3190-2643	REV. B

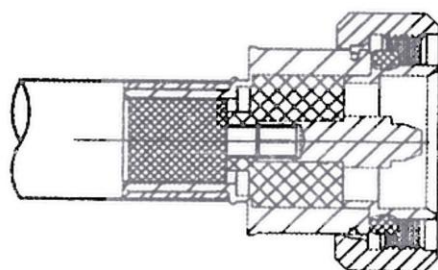
# Installation Instruction



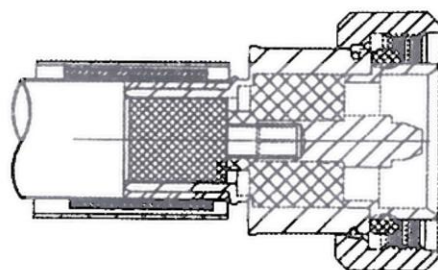
1. A. Trim cable to dimensions shown. Be careful to avoid nicking the braid
- B. Remove any residual plastic from center conductor
- C. Deburr center conductor using a fine file or Times DBT-U tools
- D. Avoid nicking aluminum tape or center conductor



2. A. Slide crimp ferrule and heat shrink tube over the cable
- B. Flare the braid



3. A. Insert Cable into connector body until dielectric is seated and center conductor is inserted fully into connector center pin.



4. A. Slide crimp ferrule over braid and crimp as close to body as possible using .429" HEX crimp tooling. Pay attention to the crimp area, do not crimp rear of crimp sleeve
- B. Heat shrink tube over rear of connector body and down on to cable jacket using hot air gun



## Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated

### RF Cables Technical Data Sheet



LMR-600-FR

#### Times Microwave Systems Coax Cable Specification

##### Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

##### Features

- CMR Riser Rated Coax
- Non-Halogen, Low Smoke PE Jacket
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 85% VoP
- Max Operating Temperature +85°C
- Min Install Bend Radius of 1.5 inches

##### Applications

- In-Building Riser Runs
- Short Antenna Installs
- RF Test Systems
- General Purpose RF Interconnect
- Laboratory Applications

##### Description

LMR-600-FR Fire Rated version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-600-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-600-FR is constructed with a 0.590 inch diameter and Black PE jacket.

LMR-600-FR flexible 50 Ohm coax cable with PE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-600-FR PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-600-FR coax cable provides specs for this wire on its RF coax cable LMR-600-FR datasheet.

LMR-600-FR cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss flexible LMR-600-FR coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

\* LMR™ is a trademark of Times Microwave Systems.

##### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.17 3.84		ns/ft ns/m
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			4,000	Vdc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated LMR-600-FR](#)



## Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable

### Double Shielded with Black PE Jacket Fire Rated

## RF Cables

### Technical Data Sheet


**LMR-600-FR**

Jacket Spark	8,000	Vrms
Inner Conductor DC Resistance	0.53	Ohms/1000ft
Outer Conductor DC Resistance	1.2	Ohms/1000ft
Nominal Capacitance	23.4 [76.77]	pF/ft [pF/m]
Nominal Inductance	0.058 [0.19]	uH/ft [uH/m]
Input Power (Peak)	40	kWatts

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.5	1	1.2	1.7	2.5	dB/100ft
	1.64	3.28	3.94	5.58	8.2	dB/100m
Input Power (CW), Max	4,240	2,410	1,970	1,350	930	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	3.3	3.7	3.9	4.4	7.3	dB/100ft
	10.83	12.14	12.8	14.44	23.95	dB/100m
Input Power (CW), Max	700	630	590	520	320	Watts

#### Mechanical Specifications

Diameter	0.59 in 14.99 mm
Weight	0.131 lbs/ft [0.19 Kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Tensile Strength	350 lbs [158.76 kg]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.176 in [4.47 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated LMR-600-FR](#)



## Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated

### RF Cables Technical Data Sheet



LMR-600-FR

Conductor Type	Solid	
Dielectric	Foam PE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	[ ]
Second Shield	Tinned Copper	[ ]
Jacket	PE, Black	0.59 in [14.99 mm]

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +85 deg C
Installation Range	-40 to +85 deg C
Storage Range	-70 to +85 deg C

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

#### Plotted and Other Data

Notes:

Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable Double Shielded with Black PE Jacket Fire Rated 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.

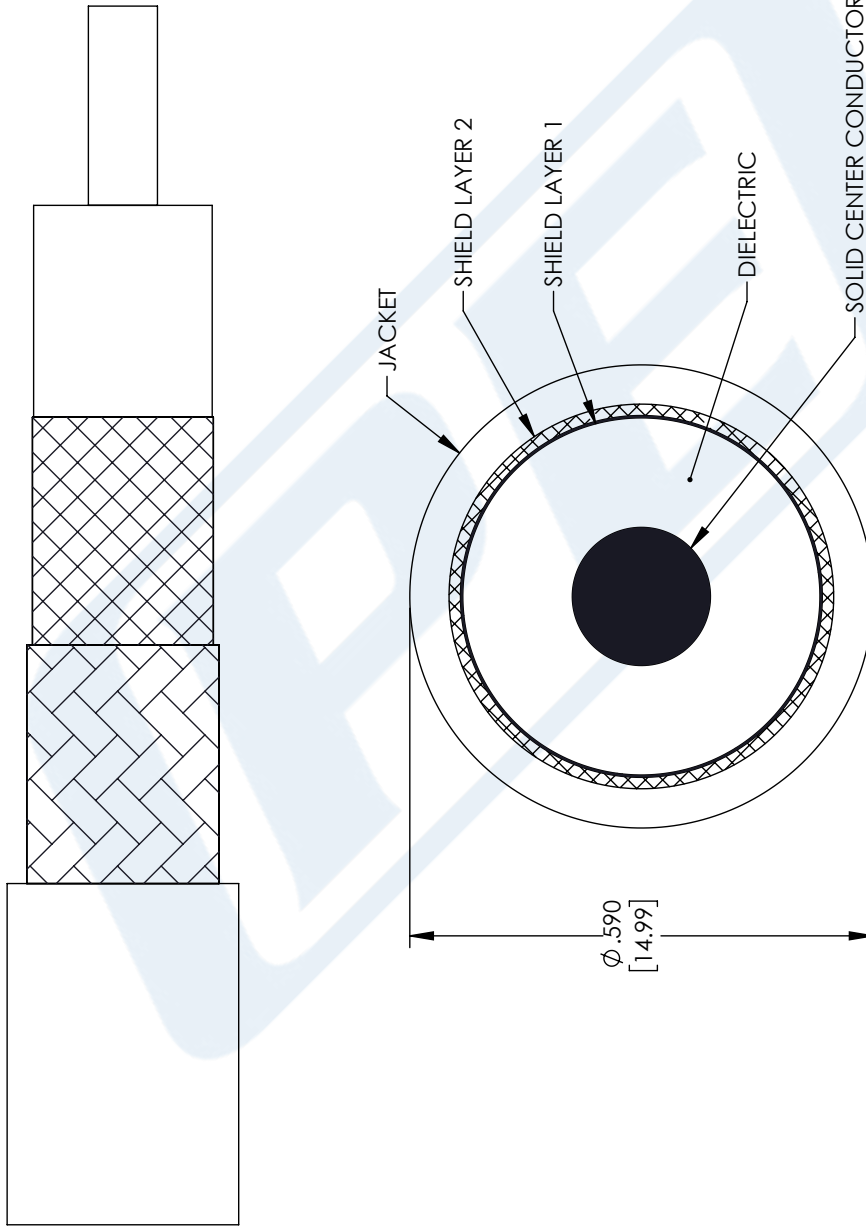
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URL: <https://www.pasternack.com/low-loss-flexible-lmr-600-fr-pe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-600-fr-p.aspx>

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**LMR-600-FR CAD Drawing**  
 Low Loss Flexible LMR-600-FR Outdoor Rated Coax Cable  
 Double Shielded with Black PE Jacket Fire Rated

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06-04-2021	SELLIS



<b>PE PASTERNAK</b> an INFINITI® brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A	
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