# **MEPNN Supplier Scouting Opportunity Synopsis**

## Section 1: General Information

Scouting Number	2025-115
Item to be Scouted	Custom Optical Fiber Patch Cables
Days to be scouted	21
Response Due By	05/07/2025
Description	Custom optical fiber patch cables for ground-based astronomy. The ViaSpec fiber patch cable is comprised of a COTS optical fiber, 1.2 meters long, with an EC fiber compared to the pace and a base 1.25mm correspondence for the part of

### Section 2: Technical Information

Type of supplier being sought	details. Manufacturer	
Reason Details Describe the manufacturing processes (elaborate to provide as much detail as possible)	<b>Othese</b> patch cables are key components of the spectrograph system being but for the Via Project. The fibers will transmit starlight from the focal plane of a 6. We refer the scope to a custom spectrograph instrument (ViaSpec). These instruments will appear that will load to a better understanding of dark	
Provide dimensions / size / tolerances / performance specifications for the item	Refer to attached drawing.	
List required materials needed to make the product, including materials of product components	Refer to assembly drawing and Bill of Materials.	
Are there applicable certification requirements?	Yes	
Certification(s) required	ISO 9001	
Details	ISO 9001 or AS9100 compliance is preferred.	
Are there applicable regulations?	No	
Are there any other stndards, requirements, etc.?	Νο	
Additional Technical Comments	We are open to discussion of alternative epoxies, and crimp sleeve methodologies, otherwise the design is considered stable.	

#### Section 4: Business Information

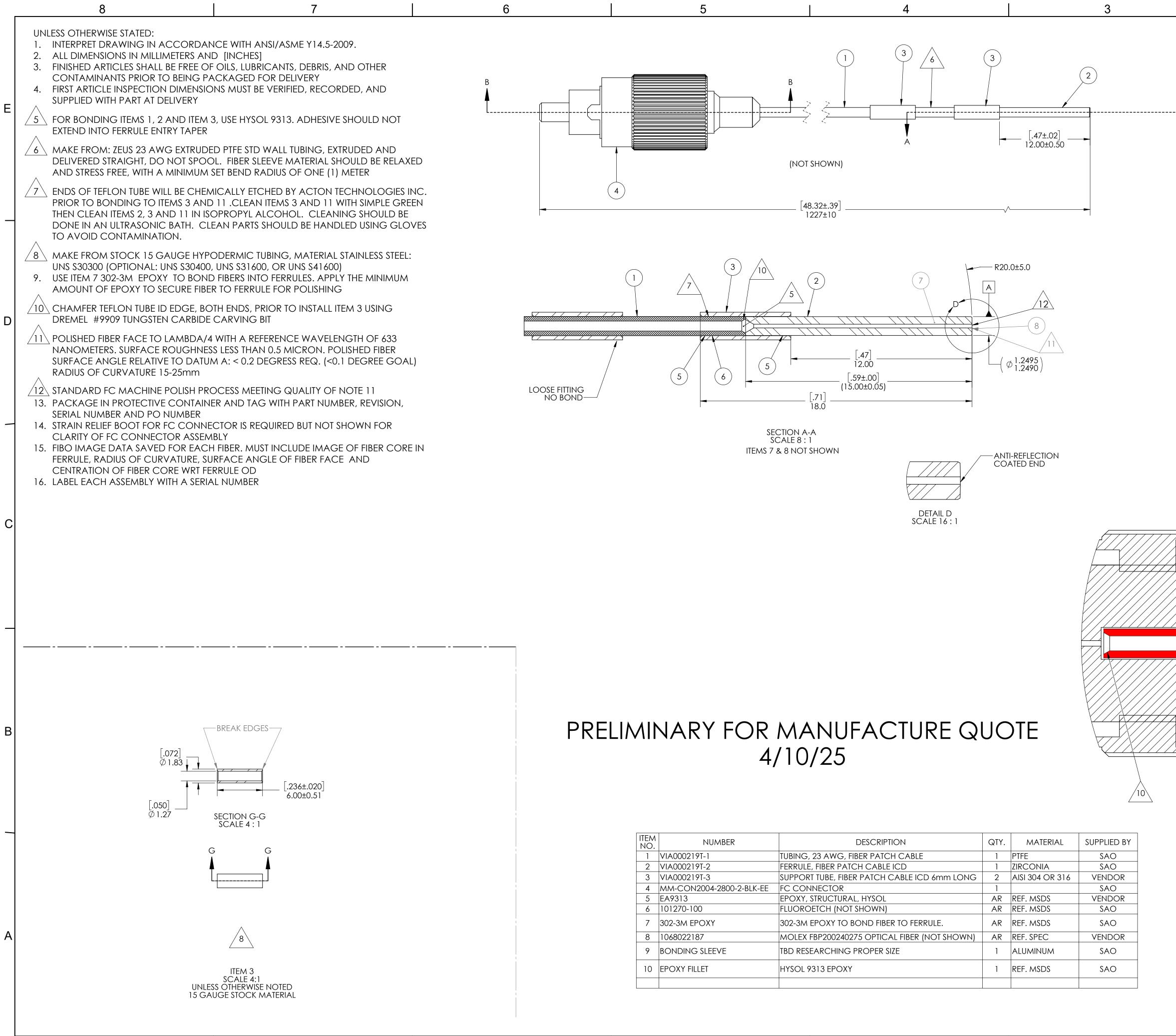
Estimated potential business volume	Approx 1500 assemblies to be ordered in 2025.
	Phase 1a: Prototype QTY 10 Phase 2: Production QTY 65 Phase 3: Production QTY 1400
Estimated target price / unit cost information (if unavailable explain)	Best available, acceptable pricing is to be determined in negotiation.

When is it needed by?	Prototypes for testing, delivered by 6/15/25 Production approval July 2025. Delivery 8 months post production approval.
Describe packaging requirements	Per drawing Note 13, cables should be packaged such that they will not be damaged during shipping and handling.
Where will this item be shipped?	These will ship to Center for Astrophysics   Harvard & Smithsonian, 100 Acorn Park Drive, Cambridge, MA 02140, USA

### Additional Comments

Is there other information you would like to include?

The Via Project is using the Milky Way galaxy as a laboratory to answer fundamental questions about the nature of the universe. Via will conduct an allsky survey of stars using the 6.5-meter MMT (Arizona) and Magellan (Chile) telescopes. The survey will utilize the ViaSpec instruments, which will be built and deployed on each of the telescopes. The project is a collaboration between Carnegie Observatories and the Center for Astrophysics | Harvard & Smithsonian. See via-project.org for more information.



ITEM NO.	NUMBER	DESCRIPTION	QTY.	MATERIAL	SUPPLIED BY
1	VIA000219T-1	TUBING, 23 AWG, FIBER PATCH CABLE	1	PTFE	SAO
2	VIA000219T-2	FERRULE, FIBER PATCH CABLE ICD	1	ZIRCONIA	SAO
3	VIA000219T-3	SUPPORT TUBE, FIBER PATCH CABLE ICD 6mm LONG	2	AISI 304 OR 316	VENDOR
4	MM-CON2004-2800-2-BLK-EE	FC CONNECTOR	1		SAO
5	EA9313	EPOXY, STRUCTURAL, HYSOL	AR	REF. MSDS	VENDOR
6	101270-100	FLUOROETCH (NOT SHOWN)	AR	REF. MSDS	SAO
7	302-3M EPOXY	302-3M EPOXY TO BOND FIBER TO FERRULE.	AR	REF. MSDS	SAO
8	1068022187	MOLEX FBP200240275 OPTICAL FIBER (NOT SHOWN)	AR	REF. SPEC	VENDOR
9	BONDING SLEEVE	TBD RESEARCHING PROPER SIZE	1	ALUMINUM	SAO
10	EPOXY FILLET	HYSOL 9313 EPOXY	1	REF. MSDS	SAO

