MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-001
Item to be Scouted	Submarine Cables and Components
Days to be scouted	30
Response Due By	02/07/2025
Description	The Northwest TechBridge Director has received an URGENT request from the Navy. They are looking for Submarine cables due to the following problem statement: Outboard cables and connectors used in critical applications face significant reliability issues due to cathodic disbandment, leading to water ingress and equipment damage. While Non-Conductive Coatings (NCC) have extended cable life, many assemblies still lack this protection. Proprietary and single-source components, such as PCOF connectors and MIL-spec cable components, limit supplier options, cause production delays, and compromise supply chain resilience. Outdated inspection and manufacturing standards further hinder lifecycle management and operational readiness.
Notify Requester Immediately	No
State item to be used in	Washington

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	2nd Supplier
Describe the manufacturing processes (elaborate to provide as much detail as possible)	First - Construction, Second - Insulation Third - Insulation jacket Fourth - Two insulated and jacketed conductors Fifth - Cable jacket of black polyethylene copolymer
Provide dimensions / size / tolerances / performance specifications for the item	Conductor of high strength copper alloy (Phelps-Dodge #PD-135 or equal, silver coated, size AWG 20, class B stranding, (7 by 0.0126-inch wire). Insulation of ethylene tetrafluoroethylene (TEFZEL), with solid colors (see fourth in manufacturing process field). Nominal wall thickness 0.010 inch. Maximum overall diameter 0.060 inch. Insulation jacket of clear natural polyethylene in accordance with L-P-390, type II, class L, grade 3. Nominal wall thickness 0.010 inch. Maximum overall diameter 0.082 inch. Two insulated and jacketed conductors, one white, one red, twisted together with a lay of 1-1/4 ± 1/8 inch. Cable jacket of black polyethylene copolymer, applied so as to completely fill the pair valleys. Unless otherwise specified in the contract or order, the cable jacket material shall be Union Carbide Corp. #DFDA-0588, black #9865 or equal. Cable jacket shall be capable of being removed without incurring damage to the insulation jacket or the insulation. Nominal wall thickness 0.060 inch. Minimum wall thickness at any cross section 0.054 inch. Cable overall diameter shall be 0.285 + .005 inch.
List required materials needed to make the product, including materials of product components	High-pressure-rated insulation and jackets. Waterproof connectors (e.g., PCOF or other subsea connectors). Anti-corrosion measures like cathodic protection coatings.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other stndards, requirements, etc.?	Yes

Details	MIL-DTL-915 specs
NAICS 1	335929 Other communication and energy wire manufacturing
NAICS 2	335931 Current-carrying wiring device manufacturing
Additional Technical Comments	Marine-grade cables, MIL-spec components. The MIL-DTL-915 specs are distro A and available on DLA's quicksearch site. https://quicksearch.dla.mil/qsSearch.aspx

Section 4: Business Information

Estimated potential business volume	To be determined based on pricing. (see estimated target Price field)
Estimated target price / unit cost information (if unavailable explain)	Best available, as this is related to BABA, acceptable pricing is to be determined in negotiation.
When is it needed by?	ASAP - This is URGENT
Describe packaging requirements	Best available. Delivered undamaged. Specifics discussed in negotiation
Where will this item be shipped?	Washington State

Additional Comments

Is there other information you would like to include?	