

CANADIAN COAST GUARD – MARITIME REGION  
INTEGRATED TECHNICAL SERVICES – MARINE ENGINEERING

**TRAWL WARP SPECIFICATION**

**TWO (2) EACH STEEL WIRE ROPE TRAWL WARPS:**

1. 1.0 INCH (25.4 mm) DIAMETER; 13,123 ft. (4000 m) LONG; 6 STRANDS x 19 WIRES PER STRAND OR 6 STRANDS x 26 WIRES PER STRAND; STEEL (IWRC) CORE; COMPACTED; GALVANIZED; 48.7 LONG TONS (49.5 TONNES) MINIMUM BREAKING LOAD; WEIGHT = 2.92 KG/M +/- 3%; PRE - LUBRICATED WITH LIGHT, PETROLEUM OR SOLVENT-BASED, PENETRATING LUBRICANT (PENETRATION @ 77°F = 70 dmm PER ASTM D-937; NOTE: dmm = DECIMILLIMETER = 0.1 mm). SEE ALSO NOTE # 4 REGARDING LUBRICANT.
2. ONE (1) LENGTH OF WIRE TO BE RIGHT REGULAR LAY (RRL); ONE LENGTH OF WIRE TO BE LEFT REGULAR LAY (LRL).
3. ALL ENDS TO BE SECURED WITH SEIZING WIRE, 0.104" (2.6 mm) DIAMETER, OVER A MINIMUM LENGTH OF 1 1/4" (32 mm).
4. **LUBRICANT SHALL BE PROVEN IN SALT WATER IMMERSION SERVICE.** LUBRICANT SHALL BE A LIGHT-COLOURED COMPOUND (VISCOSITY = 85 SUS @ 210°F PER ASTM D-445 + D-2161) THAT PROVIDES A TRANSLUCENT NON-STAINING COATING CONTAINING SUBSTANTIAL LEVELS OF ANTI-CORROSION & WATER DISPLACING ADDITIVES & SETS TO A WAX-LIKE FILM, "FUCHS CLEARLUBE 4-RO", OR EQUIVALENT. **GREASE, TAR OR ASPHALTIC COMPOUNDS SHALL NOT BE USED AS A LUBRICANT.**
5. EACH WIRE ROPE SHALL BE CONTINUOUS WITH NO SPLICES.
6. EACH WIRE ROPE SHALL BE SUPPLIED ON A REEL OR SPOOL HAVING A CENTER HOLE OF NO LESS THAN 3 INCHES (76 MM) IN DIAMETER.
7. EACH WIRE ROPE SHALL BE SUPPLIED COMPLETE WITH A MANUFACTURER'S TEST CERTIFICATE.
8. WITH THEIR SUBMISSIONS, ALL BIDDERS SHALL PROVIDE A SAMPLE OF THE PROPOSED WIRE ROPE & LUBRICANT FOR TECHNICAL APPROVAL BY CCG.