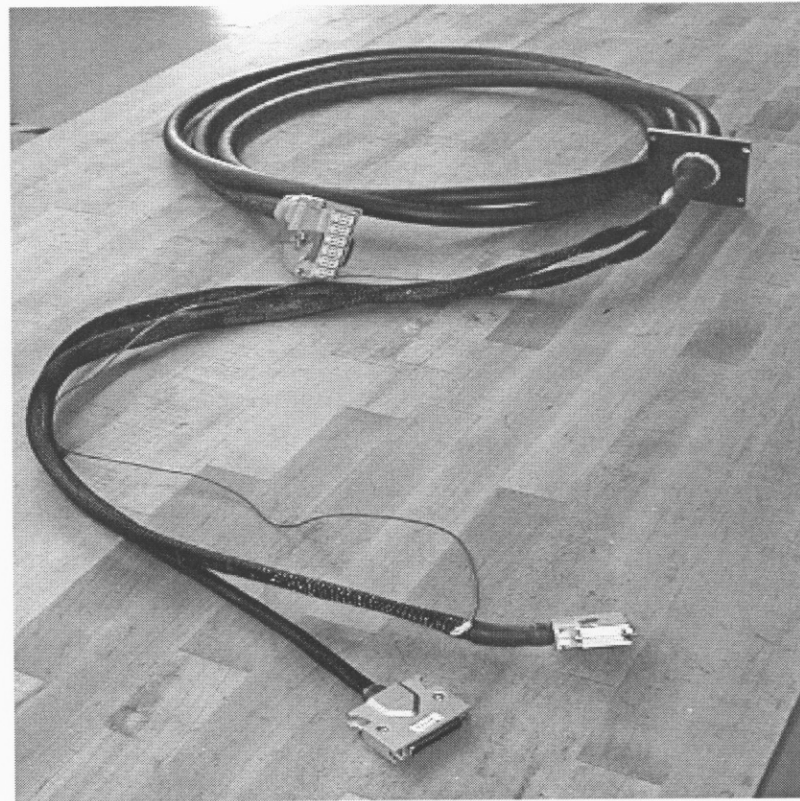
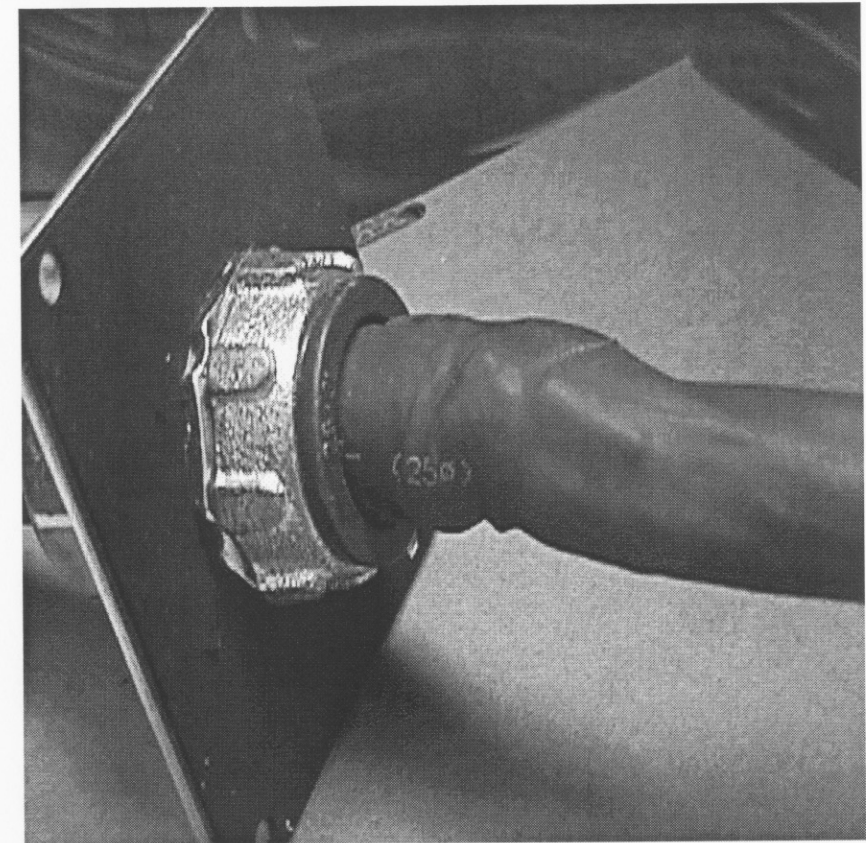


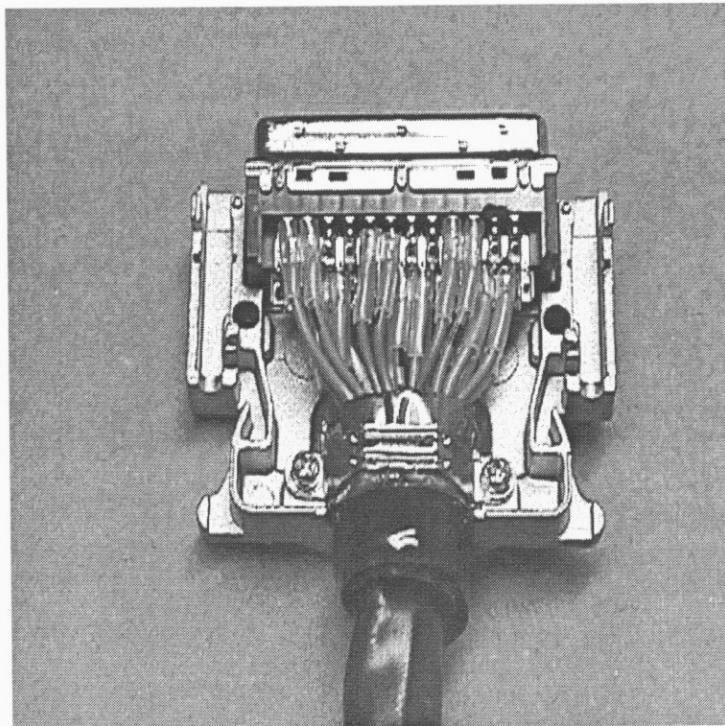
Encoder cable 123 & 456 connector output ends



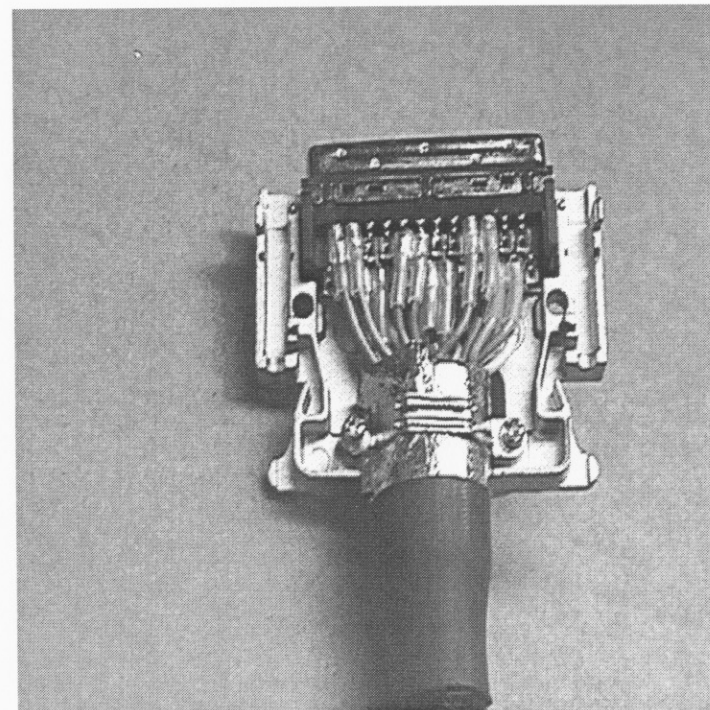
Completed 1BC encoder cable assembly



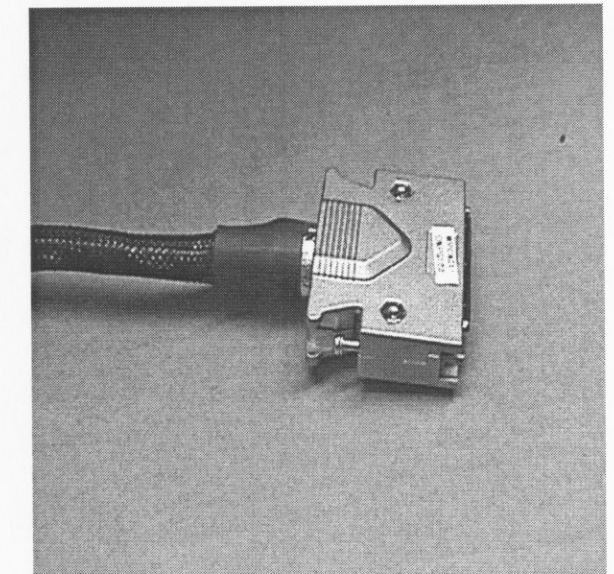
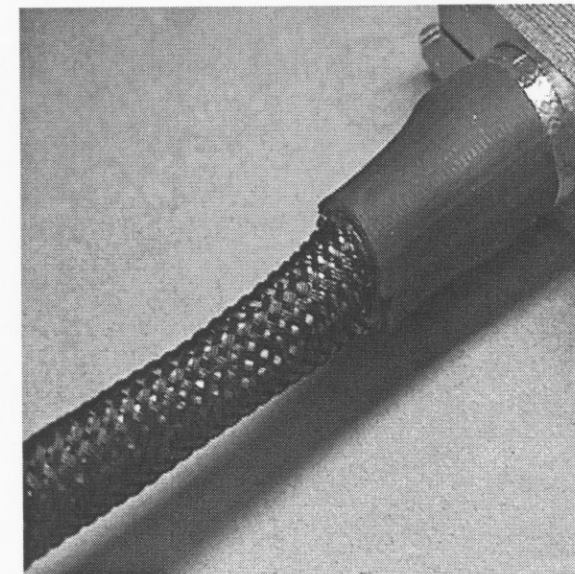
Gland nut / plate view with adhesive shrink tube .
Adhesive shrink tube intrudes into gland nut opening , 0.500" deep.



Incorrect application of shrink tube to cabling , and connector shield clamping to cable assembly



Correct application of shrink tube to cabling , and connector shield clamping to cable assembly



Typical application of adhesive shrink tube to expand tubing and connector clamping

Adept / Yaskawa 1BC encoder cable pictorial assembly drawing for SVX 300 series 6 Axis

SIZE B	FSCM NO.	DWG NO. 60660-00200	REV A
SCALE N/S	CAD Autodesk	SHEET 1 OF 2	

Silicone adhesive type shrink tube

5.0 meters

1BC

Note: See detail **(B)** for assembly instructions for WRCA01 connectors

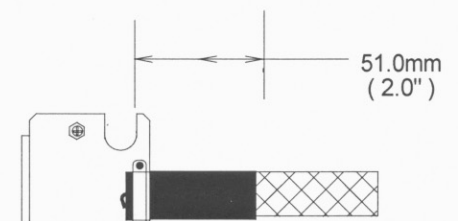
WRCA01-CNPG123

WRCA01-CNPG456

Note: CN 25 removal and insulating instructions in detail frame **(D)**

Encoder Cable Connector End Assembly

(B)



51.0mm (2.0")

Silicone adhesive type shrink tube

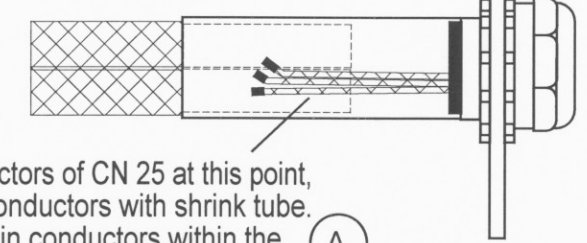
SPC Technology .750" shrink tube P/N PHS-048-6012-BLK 2 pcs. per unit. Capture Min. 1" of expandable sleeving, shrink tube clamped into housing

Shielding ground, and cable must be securely held in connector body. Use appropriate rubber cable grommet to take up slack. Shrink tube to expandable tubing MUST be of adhesive type. expandable tubing must not be able to work out of shrink tube or connector. Electrical taping of cabling to insure tight fit in connector clamping arrangement, is not permitted.

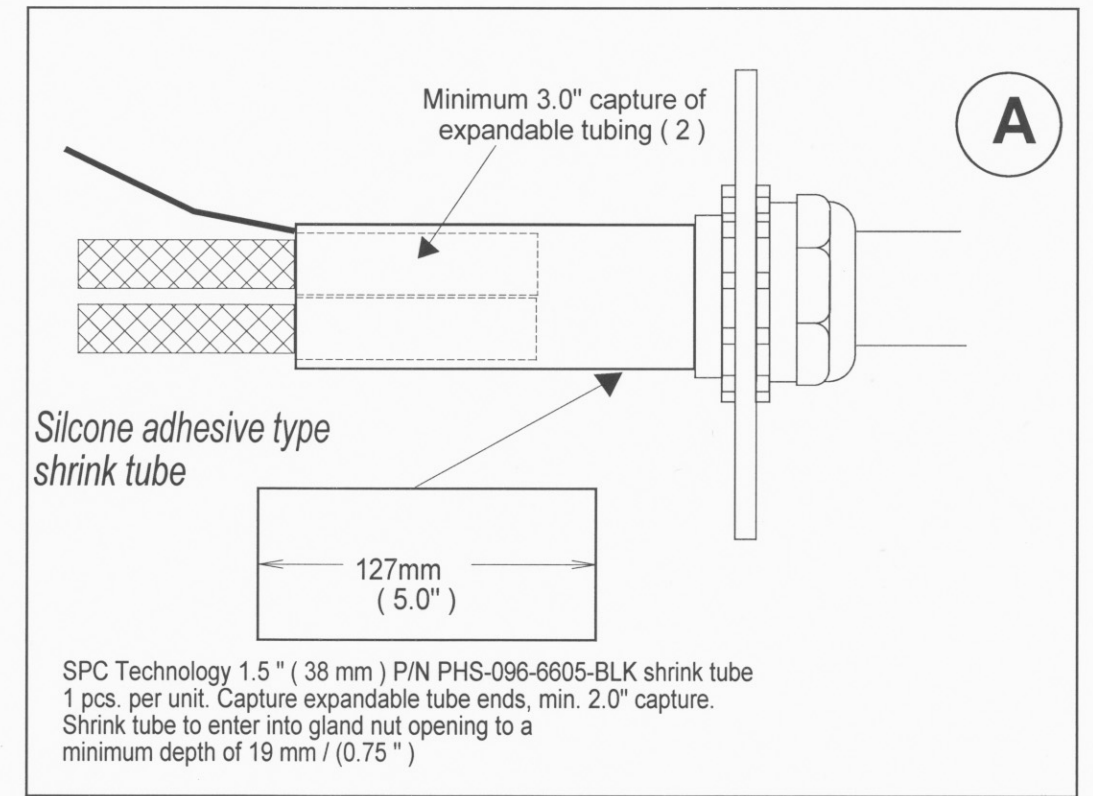
CN25 removal and insulation, and containment of conductors

(D)

Silicone adhesive type shrink tube



Cut conductors of CN 25 at this point, insulate conductors with shrink tube. And contain conductors within the portion of the adhesive shrink tubing.



Minimum 3.0" capture of expandable tubing (2)

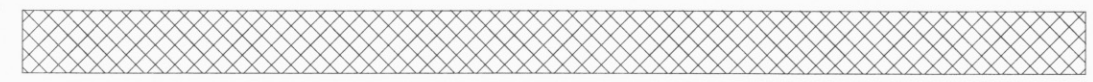
(A)

Silicone adhesive type shrink tube

127mm (5.0")

SPC Technology 1.5 " (38 mm) P/N PHS-096-6605-BLK shrink tube 1 pcs. per unit. Capture expandable tube ends, min. 2.0" capture. Shrink tube to enter into gland nut opening to a minimum depth of 19 mm / (0.75 ")

(C)



SPC Technology Expandable Sleeving P/N 8465-0232 (as required)

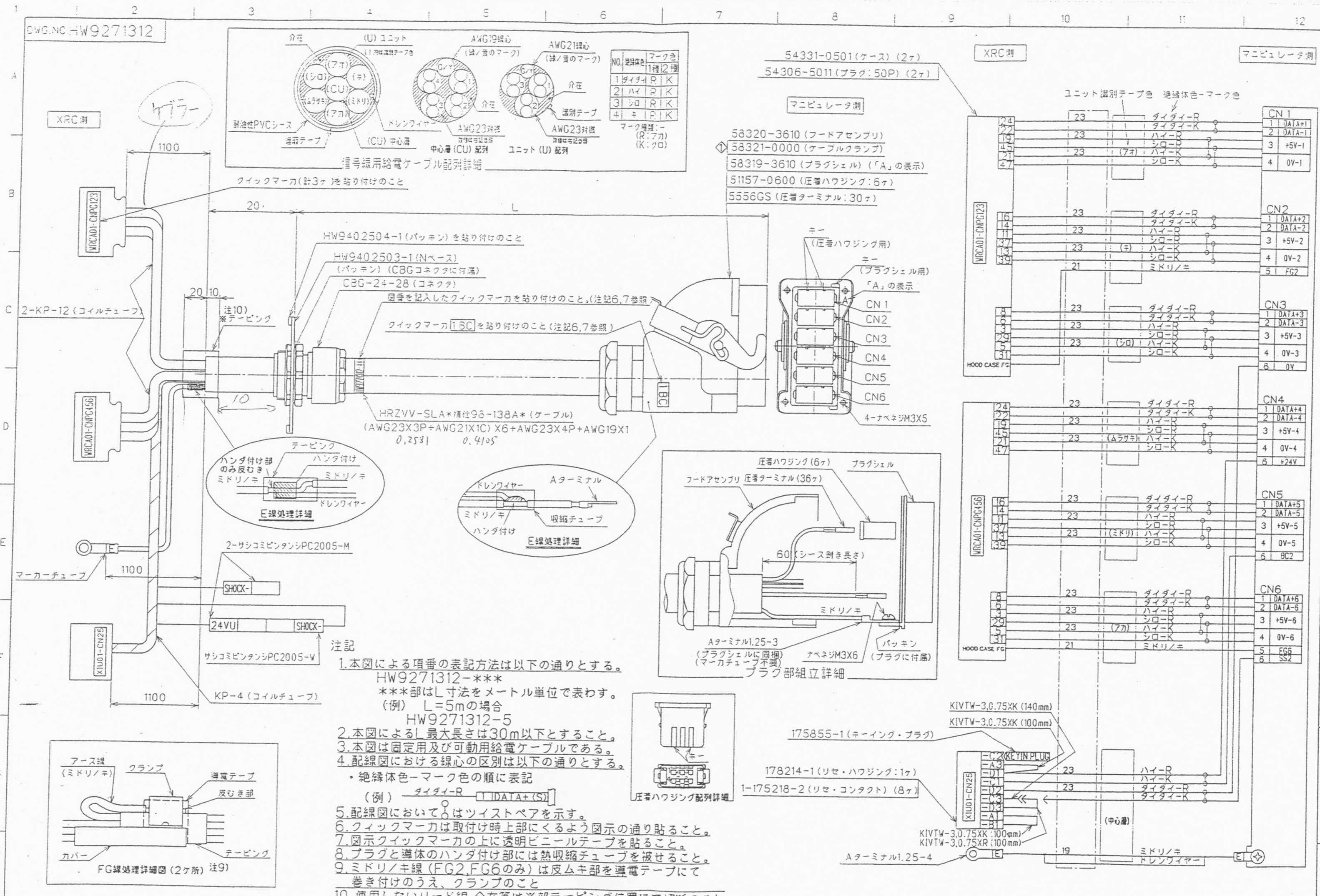
Notes: All shrink tubing / sleeving MUST be as specified, equal or better than specified.

To be used in conjunction with Yaskawa cable drawing HW9271312-(xx) (xx) = cable length

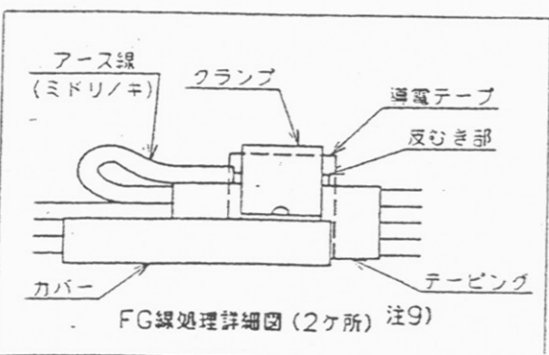
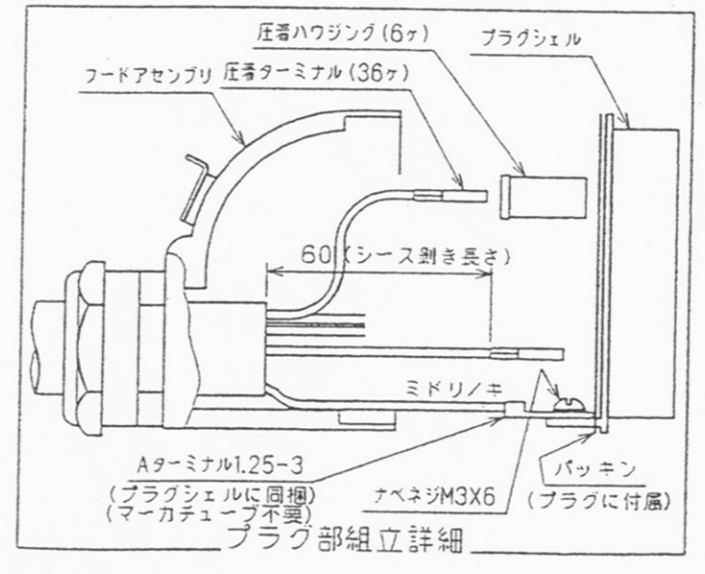
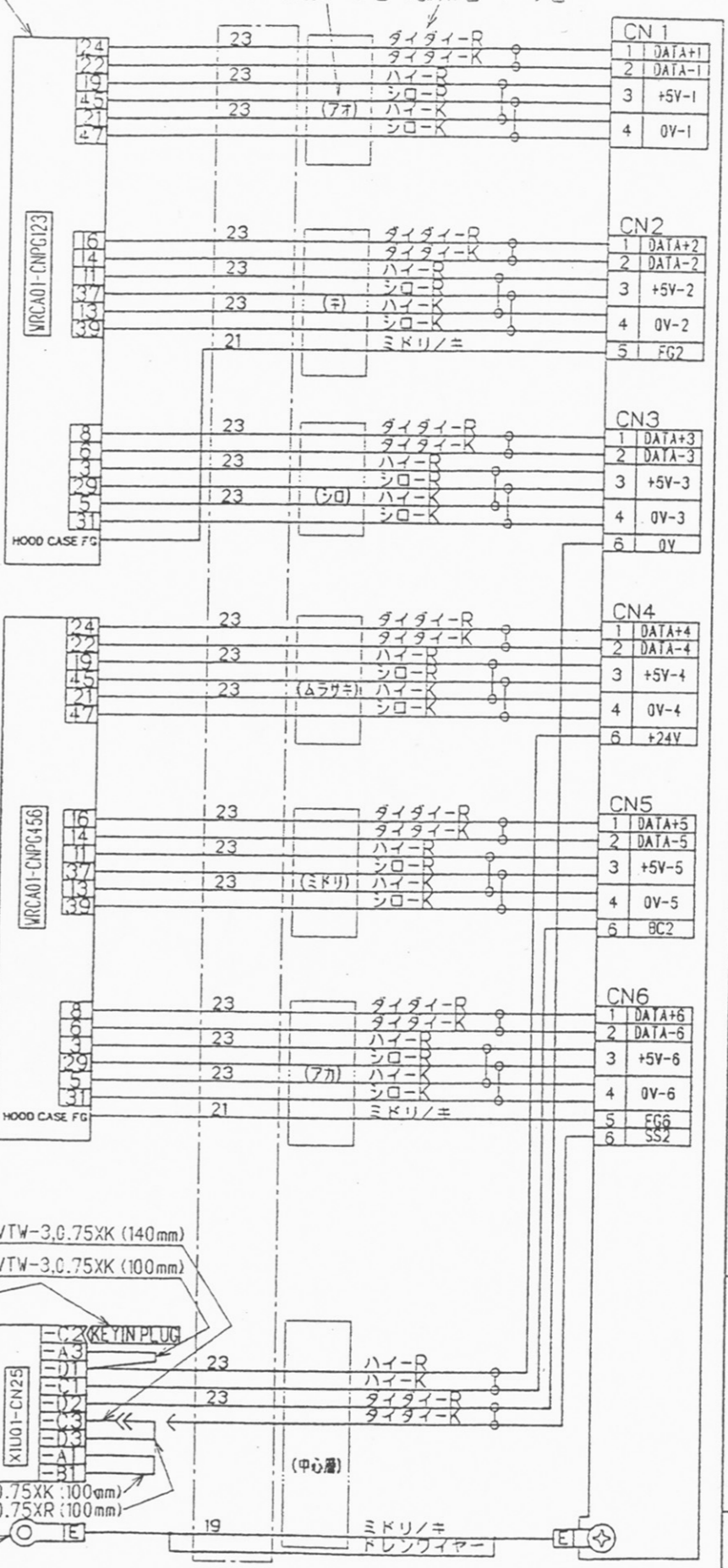
SV3 Six Axis Encoder cable Assembly

Yaskawa 1BC cable sleeving modifications Encoder cable

SIZE B	FSCM NO.	DWG NO. 60660-00200	REV A
SCALE N/S	CAD Autodesk	SHEET 2 of 2	



- 注記
1. 本図による項番の表記方法は以下の通りとする。
HW9271312-***
***部は寸法をメートル単位で表わす。
(例) L=5mの場合 HW9271312-5
 2. 本図による最大長さは30m以下とすること。
 3. 本図は固定用及び可動用給電ケーブルである。
 4. 配線図における線心の区別は以下の通りとする。
・絶縁体色-マーク色の順に表記
(例) タイダイ-R DATA+(S)
 5. 配線図において ⊗ はツイストペアを示す。
 6. フィックマークは取付け時上部にくるように図示の通り貼ること。
 7. 図示フィックマークの上に透明ビニールテープを貼ること。
 8. プラグと導体のハンダ付け部には熱収縮チューブを被せること。
 9. ミドリノキ線 (FG2, FG6のみ) は皮むき部を導電テープにて巻き付けのうえ、クランプのこと。
 10. 使用しないリード線、介在等は※部テーピング位置にて切断のこと。





adept technology, inc.

MEMORANDUM

From: Dave Pap Rocki
Date: December 5, 2000

Subject: Yaskawa, Inc. as Sole Source Supplier

This memo is prepared to document agreement upon the statement:

Yaskawa, Inc. is considered a Sole Source Supplier for Vector 6-axis manipulators and related spare parts.

Hence, this memo provides Sole Source Authorization for all Source Control Drawings (SCD's) for Adept 6-axis Vector manipulators and related spare parts.

Maurice Green 12/5/00
Director of Materials Date

Dan Whalen 12-5-2000
Component Engineering Date

Carl Yeh 12-5-2000
Product Marketing Date

B. Shi 12-5-00
Vice President, Engineering Date

Maurice White 12-5-00
Vice President, Operations Date