



Automotive Industry Action Group

Acc. to AIAG PPAP 4th edition

PPAP (Production Part Approval Process) submission

Design
Drawing
Number:

Version:

Date:

Rosenberger part numbers:

Customer part numbers:

OEM part numbers:

PPA documents prepared by:

Date:



Automotive Industry Action Group

Acc. to AIAG PPAP 4th edition

PPAP (Production Part Approval Process) submission

Design
Drawing
Number:

Version:

Date:

1

Design record

PPA documents prepared by:

Date:

23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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LTRS	REVISIONS		
ORIGINATOR	CHECKER	ENGR APP	MATL APP
RELEASED			
AELE E 13777777 550		20221121	
SDRUYOR	S.DUMANN	RRAUCHM2	N/A

							FORD ASSEMBLY PN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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[illegible]

KEY DETAILS

Coding	Jack
A	
B	
C	
D	
E	
Z	

E7Z005-C00Y	
Coding	Plug
A	
B	
C	
D	
E	
F	
G	
H	
Z	

Coding	Jack
A	
B	
C	
D	
E	
F	
G	
H	
Z	

Coding	Jack
L	
M	
N	
O	
P	
R	
S	
T	
U	

Coding	Plug
L	
M	
N	
O	
P	
R	
S	
T	
U	

CONNECTOR COMBINATIONS

CONNECTOR 1	CONNECTOR 2	DIM B (mm)	DIM C (mm)	DIM D (mm)	DIM E (mm)	DIM L (mm)
FEMALE	FEMALE	(20.65)	(20.65)	60	18	SEE DETAIL 3
MALE	MALE	(29.25)	(29.25)	60	18	SEE DETAIL 3
INSERT	FEMALE	(19.95)	(20.65)	60	18	SEE DETAIL 3
INSERT	MALE	(19.95)	(29.25)	60	18	SEE DETAIL 3

TOLERANCES

RANGE IN mm (DIM L)	200 to 1000	1001 to 5000	5001 to 20000
TOLERANCE IN mm	+20/-0	+30/-0	+40/-0

DETA

Seite / side 1

FoMoCo

XXXX-XXXXXX-XXXXXX

XXXXXX

XXXXXX

Ford Teilenummer
Ford Part no.

Rosenberger Nr.
Rosenberger no.

Lieferantencode
supplier code

Seite / side 2

Rosenberger

XXXXX

FAC - Lot No. FAC - Chargennummer

XXXX-YYMM-DD

XXXX-YYMM-DD

XXXX

Lieferantenname
supplier name

Fertigungsstandort
manufacturing site

FAC - Lot No. FAC - Chargennummer

Datum im Format YYYY-MM-DD TT
date in format YYYY-MM-DD

Fortlaufende Nr.
sequential no.

Maschinen Nr.
machine no.

Datum (ford part no.)

DETAIL

DIM L IN mm
AS REQUIRED

UNITS
TENS
HUNDREDS
THOUSANDS

CHANGE LEVEL INDICATOR
EXAMPLE

UNITS
TENS
HUNDREDS
THOUSANDS

EXAMPLE

CONNECTOR SIDE A
CONNECTOR SIDE B

NOTE:
EXAMPLE PN IN DETAIL 3
IS FOR REFERENCE PURPOSES
AND DOES NOT REPRESENT
ASSEMBLY SHOWN ABOVE

1. CONFORMS TO DOT-00000202384 (EY01686)

2. OTHER THAN UNITED STATES MANUFACTURING COMPONENTS THE COUNTRY OF ORIGIN OF EACH PART OR CLEARLY MARKED IN ENGLISH (SEE I.D. 10.1)

3. PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGER/ WAREHOUSE SHALL BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE POLICY ON CORROSION. ANY CORROSION DETECTED ON ANY PART OR FOREIGN MATERIALS DETRIMENTAL TO THE INSTALLATION OR FUNCTION OF THE PART MUST BE REMEDIAL BY THE INTENDED CLEANING METHOD

4. CHOOSE TO DESIGN, CONSTRUCT, MANUFACTURE OR THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO ISOTS 16949

5. FOR CURRENT RELEASE STATUS OF THE PART, SEE ENGINEERING NOTE 10.1

6. PART BRANDING (TRADEMARK) AND COING MUST BE IN ACCORDANCE WITH FORDWORTH FORD ENGINEERING CAD AND DRAFTING STANDARDS, SECTION 6.3. THIS PART ASSEMBLY MUST BE MARKED WITH BRAND IDENTIFICATION E-108 OR THE EXEMPTION CODE IS THE AUTHORITY FOR NON- COMPLIANCE

7. THIS PART HAS RECEIVED A TRADEMARK EXEMPTION NUMBER: 18-04-04

8. FORTIGHT WOULD BE CALCULATED AS THE MINIMUM ALLOWABLE DIMENSIONAL MINIMUM ALLOWABLE DESIGN LENGTH (DIM L = 500MM)

9. MAKING, ROSENBERGER BATCH NUMBER "XXXXXX"

10. FORTIGHT WOULD BE CALCULATED AS THE MINIMUM ALLOWABLE DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL).

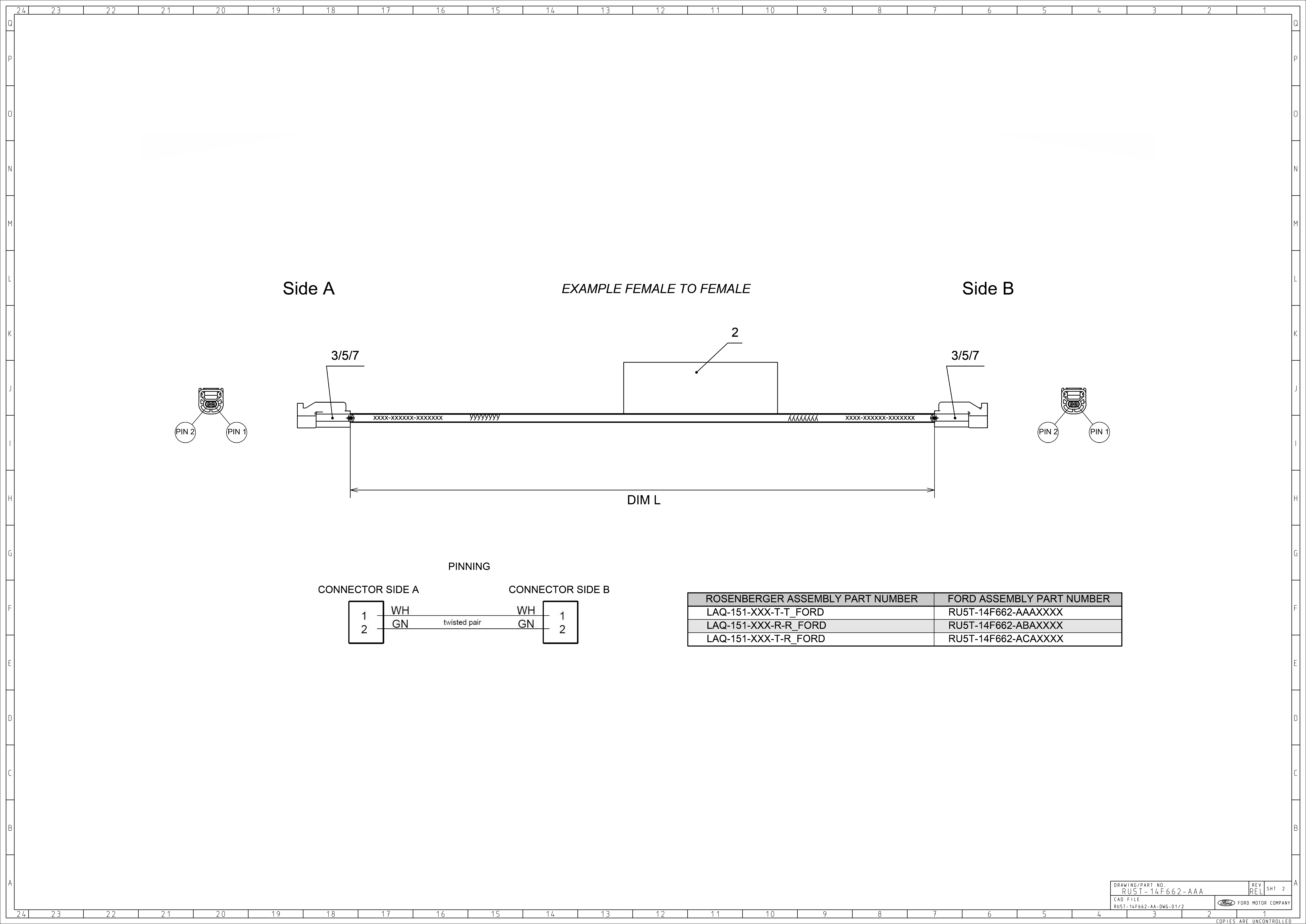
11. THIS DRAWING HAS BEEN PREPARED BY OR ON BEHALF OF FORD MOTOR COMPANY. ANY REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN AUTHORITY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, THIS DRAWING MUST NOT BE USED FOR ANY PURPOSE OTHER THAN PERFORMING SERVICES DIRECTLY OR INDIRECTLY TO FORD MOTOR COMPANY.

12. ANY REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN AUTHORITY OF FORD MOTOR COMPANY, INCLUDING MODIFICATION, INFLUENCING THE REMOVAL OF THIS NOTE, MAY CONSTITUTE A VIOLATION OF CIVIL OR CRIMINAL LAWS ENFORCEABLE BY FORD MOTOR COMPANY OR GOVERNMENTAL AGENCIES.

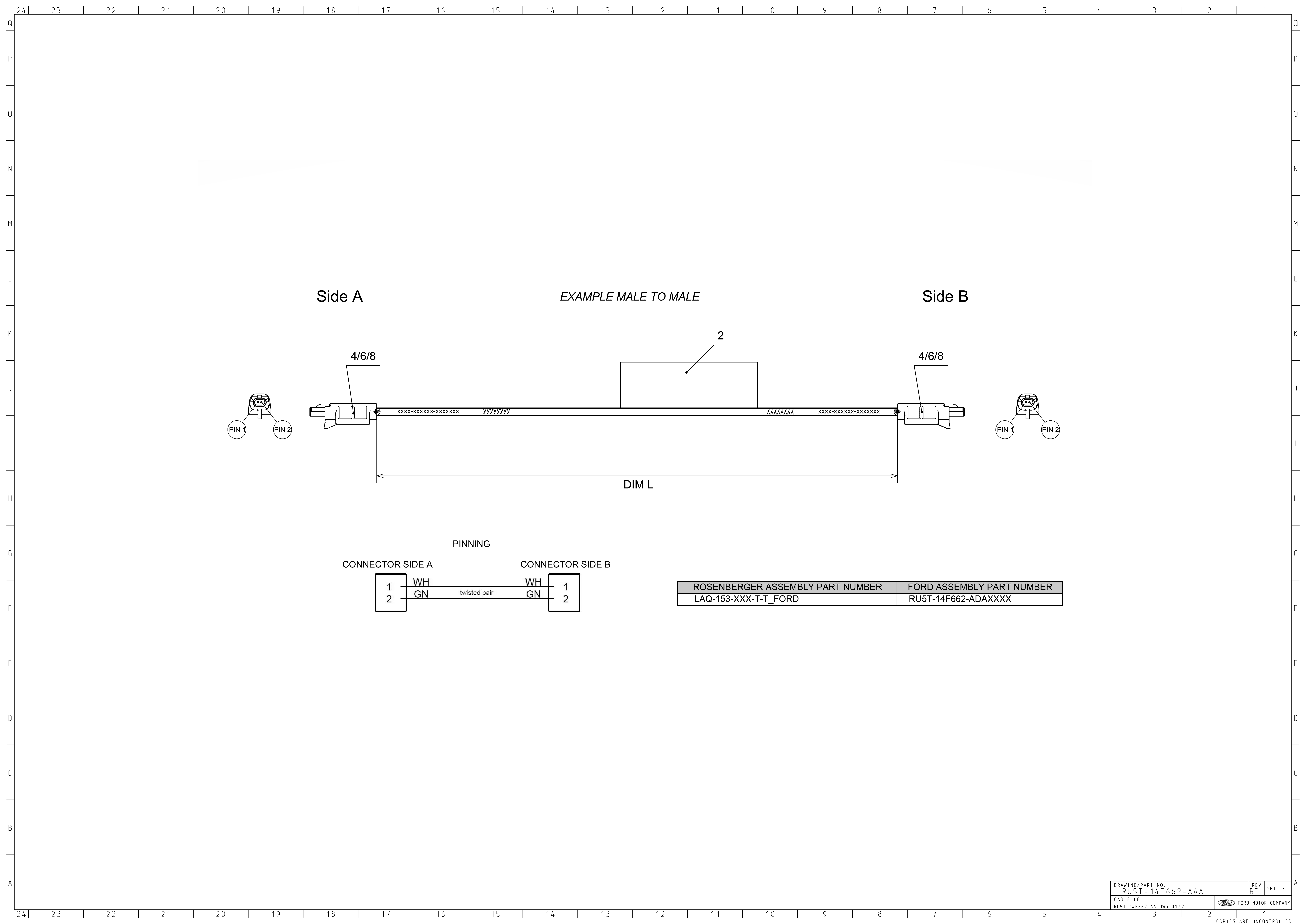
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PAGE 4	RU5T-14F662-AGA
PAGE 4	RU5T-14F662-AHA
PAGE 5	RU5T-14F662-AJA
PAGE 5	RU5T-14F662-AKA
PAGE 6	RU5T-14F662-AGA
PAGE 6	RU5T-14F662-CHA
PAGE 6	RU5T-14F662-CJA
PAGE 6	RU5T-14F662-CKA
PAGE 6	RU5T-14F662-CLA
PAGE 7	RU5T-14F662-AMA
PAGE 7	RU5T-14F662-ANA
PAGE 7	RU5T-14F662-APA
PAGE 7	RU5T-14F662-ARA
PAGE 7	RU5T-14F662-ASA
PAGE 7	RU5T-14F662-ATA
PAGE 7	RU5T-14F662-AUA
PAGE 7	RU5T-14F662-AVA
PAGE 7	RU5T-14F662-AXA
PAGE 7	RU5T-14F662-AYA
PAGE 7	RU5T-14F662-AZA
PAGE 7	RU5T-14F662-BAA
PAGE 7	RU5T-14F662-BBA
PAGE 7	RU5T-14F662-BCA
PAGE 7	RU5T-14F662-BDA
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PAGE 8	RU5T-14F662-BFA
PAGE 8	RU5T-14F662-BGA
PAGE 8	RU5T-14F662-BHA
PAGE 8	RU5T-14F662-BJA
PAGE 8	RU5T-14F662-BKA
PAGE 8	RU5T-14F662-BLA
PAGE 8	RU5T-14F662-BMA
PAGE 8	RU5T-14F662-BNA
PAGE 8	RU5T-14F662-BPA
PAGE 8	RU5T-14F662-BRA
PAGE 8	RU5T-14F662-BSA
PAGE 8	RU5T-14F662-BTA
PAGE 8	RU5T-14F662-BUA
PAGE 8	RU5T-14F662-BVA
PAGE 8	RU5T-14F662-BXA
PAGE 9	RU5T-14F662-BYA
PAGE 9	RU5T-14F662-BZA
PAGE 9	RU5T-14F662-CAA
PAGE 9	RU5T-14F662-CBA
PAGE 9	RU5T-14F662-CCA
PAGE 9	RU5T-14F662-CDA
PAGE 9	RU5T-14F662-CEA
PAGE 9	RU5T-14F662-CFA
SHOWN ON	FORD PART NUMBER

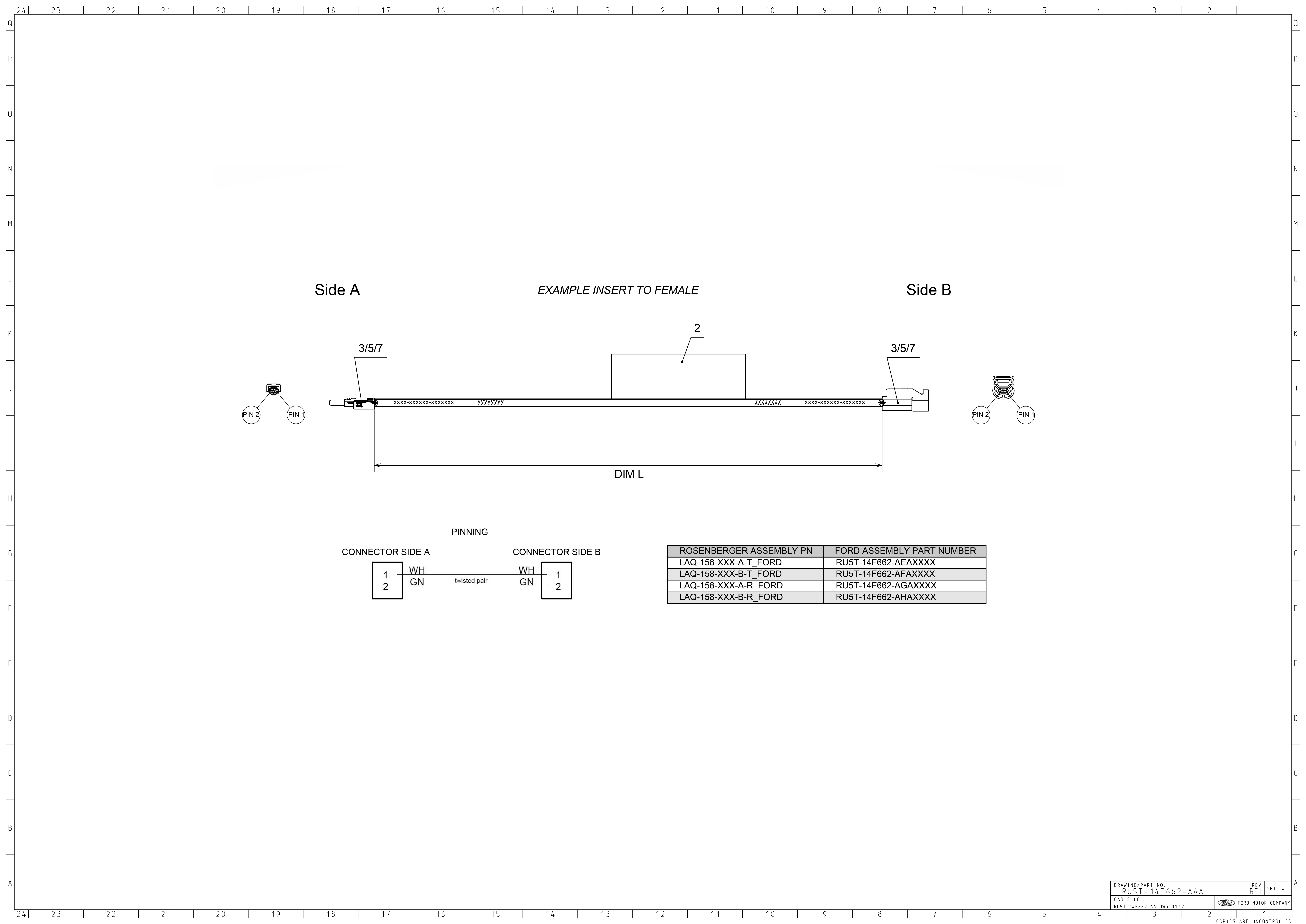
ROSENBERGER			
734-231-5351			
4 PARK LANE BLVD SUITE 307			
DEARBORN, MI 48126			
ENG APP	R. SHEARDOWN	APP DATE	2022121
GSOB CODE DNTO	SUPPLIER PART NUMBER N / A		

REFERENCE		MTD A2B ASY			
WSS-M999999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT					
DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 30					3RD ANGLE PROJ DIMENSIONS ARE IN MILLIMETERS
CAD TYPE	CAD LOC	CAD FILE	DTM		
K-CATIAS	TC	RUST-14F662-AA-DWG-01/2	15 MASTER		
PLANT CODE	LINE CODE	OPER NO.	BT NO.	STATION	SIZE
N/A	N/A	N/A	N/A	N/A	N/A
PLANT NAME	DEPT NO.	DESIGN	SCALE	SHT	1
N/A	N/A	SDRUYOR	1:1	OF	9
TITLE/PART NAME					
CA ASY CXL					
DRAWING/PART NO. RUST-14F662-AA					N/A
 FORD MOTOR COMPANY					



ROSENBERGER ASSEMBLY PART NUMBER	FORD ASSEMBLY PART NUMBER
LAQ-151-XXX-T-T_FORD	RU5T-14F662-AAAXXXX
LAQ-151-XXX-R-R_FORD	RU5T-14F662-ABAXXXX
LAQ-151-XXX-T-R_FORD	RU5T-14F662-ACAXXXX

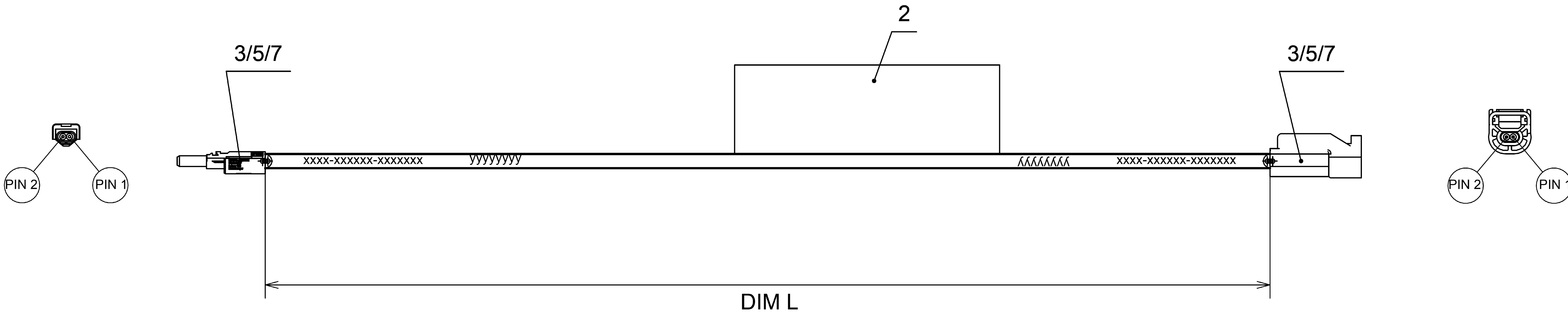




Side A

EXAMPLE INSERT TO FEMALE

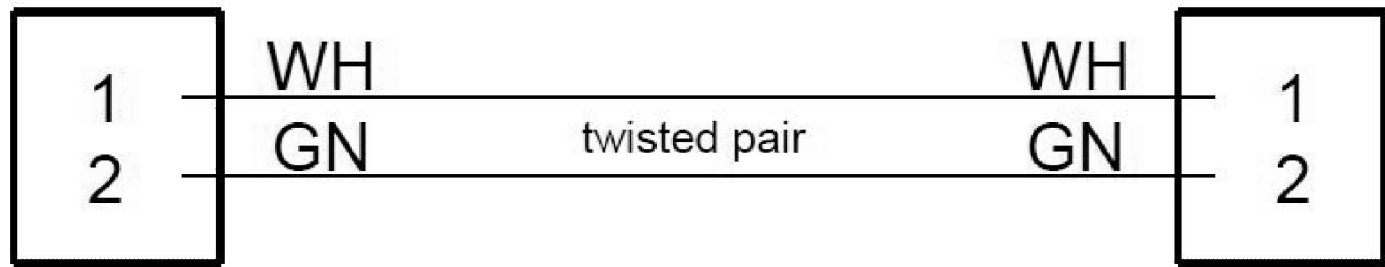
Side B



PINNING

CONNECTOR SIDE A

CONNECTOR SIDE B



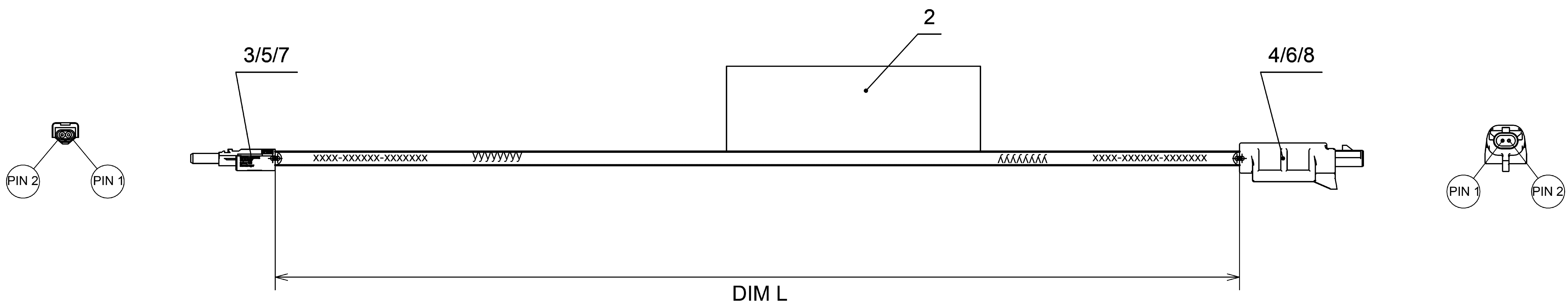
ROSENBERGER ASSEMBLY PN	FORD ASSEMBLY PART NUMBER
LAQ-158-XXX-A-T_FORD	RU5T-14F662-AEAXXX
LAQ-158-XXX-B-T_FORD	RU5T-14F662-AFAXXX
LAQ-158-XXX-A-R_FORD	RU5T-14F662-AGAXXX
LAQ-158-XXX-B-R_FORD	RU5T-14F662-AHAXXX



Side A

EXAMPLE INSERT TO MALE

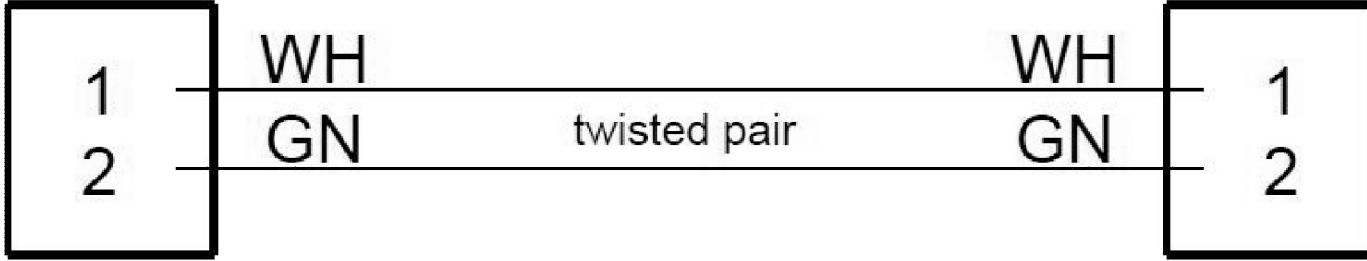
Side B



PINNING

CONNECTOR SIDE A

CONNECTOR SIDE B



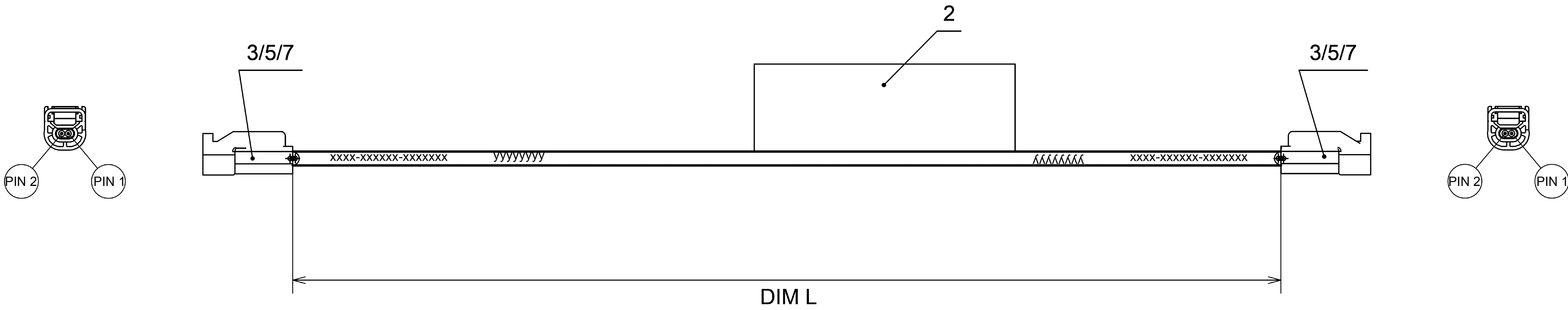
ROSENBERGER ASSEMBLY PART NUMBER	FORD ASSEMBLY PART NUMBER
LAQ-159-XXX-A-T_FORD	RU5T-14F662-AJAXXXX
LAQ-159-XXX-B-T_FORD	RU5T-14F662-AKAXXXX



Side A

EXAMPLE FEMALE TO FEMALE

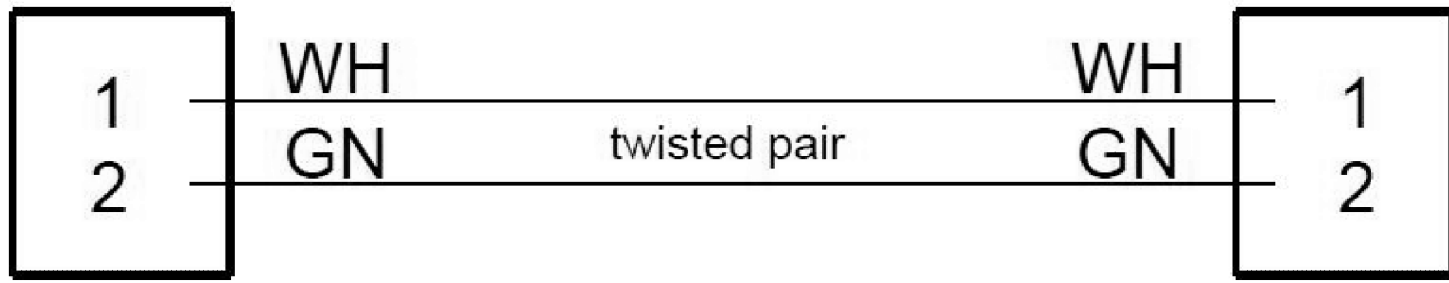
Side B



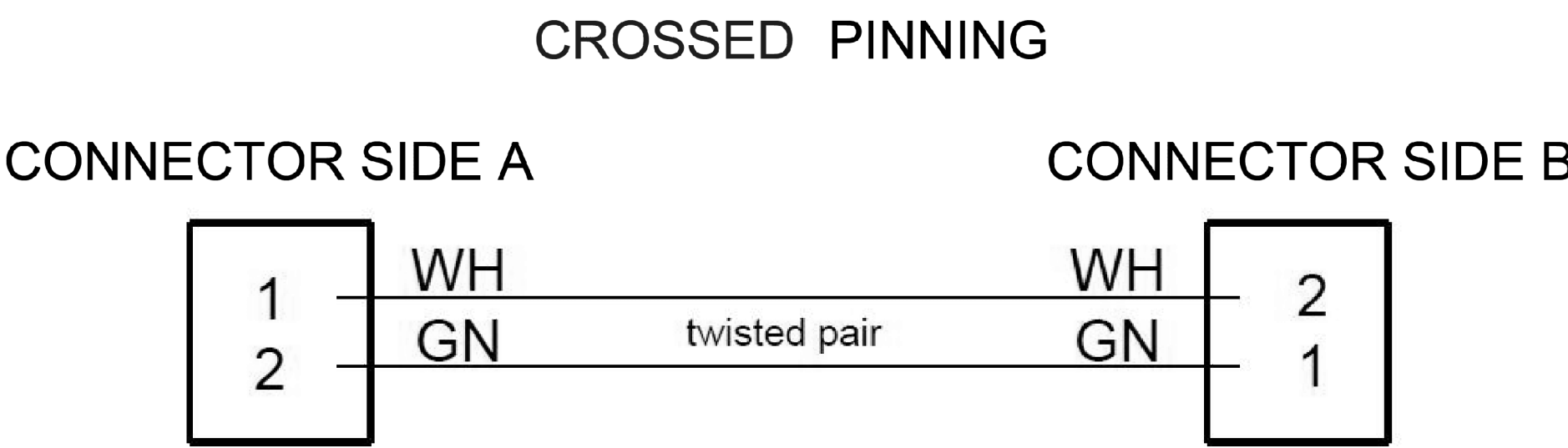
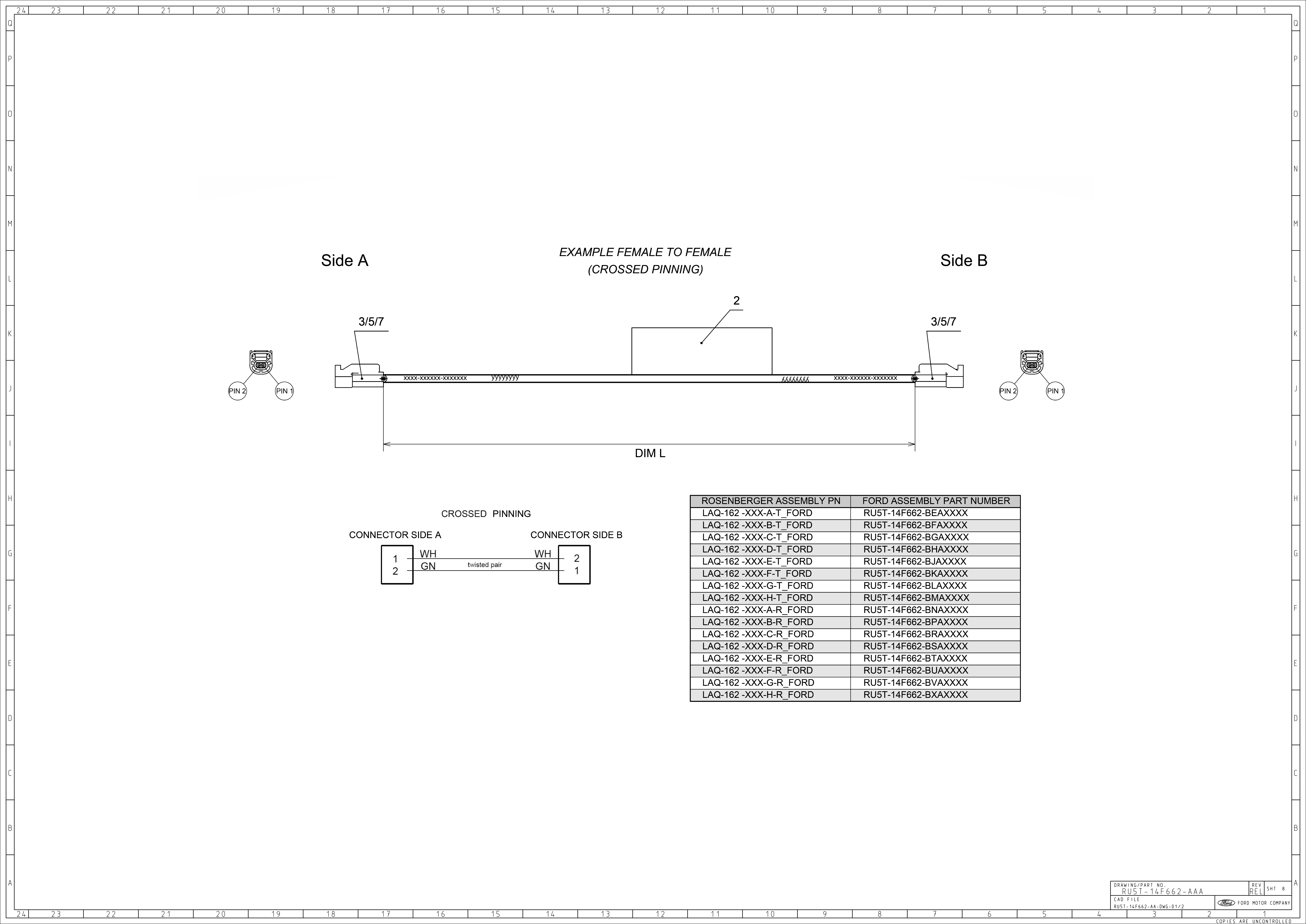
PINNING

CONNECTOR SIDE A

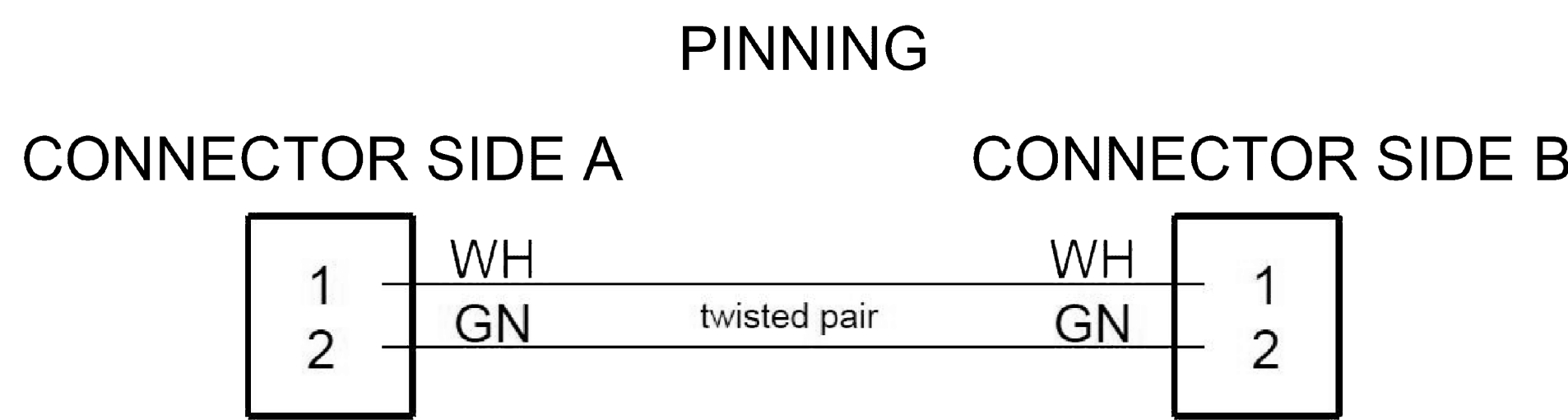
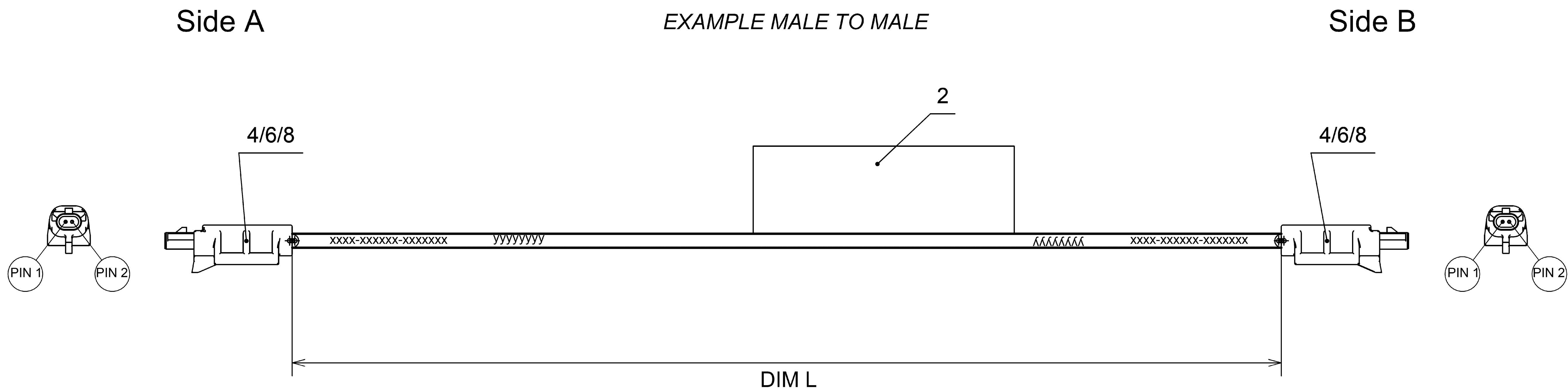
CONNECTOR SIDE B



ROSENBERGER ASSEMBLY PN	FORD ASSEMBLY PART NUMBER
LAQ-161 -XXX-A-T_FORD	RU5T-14F662-ALAXXXX
LAQ-161 -XXX-B-T_FORD	RU5T-14F662-AMAXXXX
LAQ-161 -XXX-C-T_FORD	RU5T-14F662-ANAXXXX
LAQ-161 -XXX-D-T_FORD	RU5T-14F662-APAXXXX
LAQ-161 -XXX-E-T_FORD	RU5T-14F662-ARAXXXX
LAQ-161 -XXX-F-T_FORD	RU5T-14F662-ASAXXXX
LAQ-161 -XXX-G-T_FORD	RU5T-14F662-ATAXXXX
LAQ-161 -XXX-H-T_FORD	RU5T-14F662-AUAXXXX
LAQ-161 -XXX-A-R_FORD	RU5T-14F662-AVAXXXX
LAQ-161 -XXX-B-R_FORD	RU5T-14F662-AXAXXXX
LAQ-161 -XXX-C-R_FORD	RU5T-14F662-AYAXXXX
LAQ-161 -XXX-D-R_FORD	RU5T-14F662-AZAXXXX
LAQ-161 -XXX-E-R_FORD	RU5T-14F662-BAAXXXX
LAQ-161 -XXX-F-R_FORD	RU5T-14F662-BBAXXXX
LAQ-161 -XXX-G-R_FORD	RU5T-14F662-BCAXXXX
LAQ-161 -XXX-H-R_FORD	RU5T-14F662-BDAXXXX



ROSENBERGER ASSEMBLY PN	FORD ASSEMBLY PART NUMBER
LAQ-162 -XXX-A-T_FORD	RU5T-14F662-BEAXXXX
LAQ-162 -XXX-B-T_FORD	RU5T-14F662-BFAXXXX
LAQ-162 -XXX-C-T_FORD	RU5T-14F662-BGAXXXX
LAQ-162 -XXX-D-T_FORD	RU5T-14F662-BHAXXXX
LAQ-162 -XXX-E-T_FORD	RU5T-14F662-BJAXXXX
LAQ-162 -XXX-F-T_FORD	RU5T-14F662-BKAXXXX
LAQ-162 -XXX-G-T_FORD	RU5T-14F662-BLAXXXX
LAQ-162 -XXX-H-T_FORD	RU5T-14F662-BMAXXXX
LAQ-162 -XXX-A-R_FORD	RU5T-14F662-BNAXXXX
LAQ-162 -XXX-B-R_FORD	RU5T-14F662-BPAXXXX
LAQ-162 -XXX-C-R_FORD	RU5T-14F662-BRAXXXX
LAQ-162 -XXX-D-R_FORD	RU5T-14F662-BSAXXXX
LAQ-162 -XXX-E-R_FORD	RU5T-14F662-BTAXXXX
LAQ-162 -XXX-F-R_FORD	RU5T-14F662-BUAXXXX
LAQ-162 -XXX-G-R_FORD	RU5T-14F662-BVAXXXX
LAQ-162 -XXX-H-R_FORD	RU5T-14F662-BXAXXXX



ROSENBERGER ASSEMBLY PN	FORD ASSEMBLY PART NUMBER
LAQ-163-XXX-A-T_FORD	RU5T-14F662-BYAXXXX
LAQ-163-XXX-B-T_FORD	RU5T-14F662-BZAXXXX
LAQ-163-XXX-C-T_FORD	RU5T-14F662-CAAXXXX
LAQ-163-XXX-D-T_FORD	RU5T-14F662-CBAXXXX
LAQ-163-XXX-E-T_FORD	RU5T-14F662-CCAXXXX
LAQ-163-XXX-F-T_FORD	RU5T-14F662-CDAXXXX
LAQ-163-XXX-G-T_FORD	RU5T-14F662-CEAXXXX
LAQ-163-XXX-H-T_FORD	RU5T-14F662-CFAXXXX



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Drawing
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Version:

Date:

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Dimensional results

PPA documents prepared by:

Date:

Production Part Approval - Dimensional Results

Page 1 of 1 Pages[illegible]

Blanket statements of conformance are unacceptable for any test results.

March 2006 CFG-1003

SIGNATURE	TITLE	DATE
Mónika Major	QM QPL	17.11.23



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10

Material, performance test results

PPA documents prepared by:

Date:

[illegible]

Blanket statements of conformance are unacceptable for any test results.

CFG-1005

<u>SIGNATURE</u>	<u>TITLE</u>	<u>DATE</u>
i. A. Mónica Major	Quality Engineer	17.11.2023



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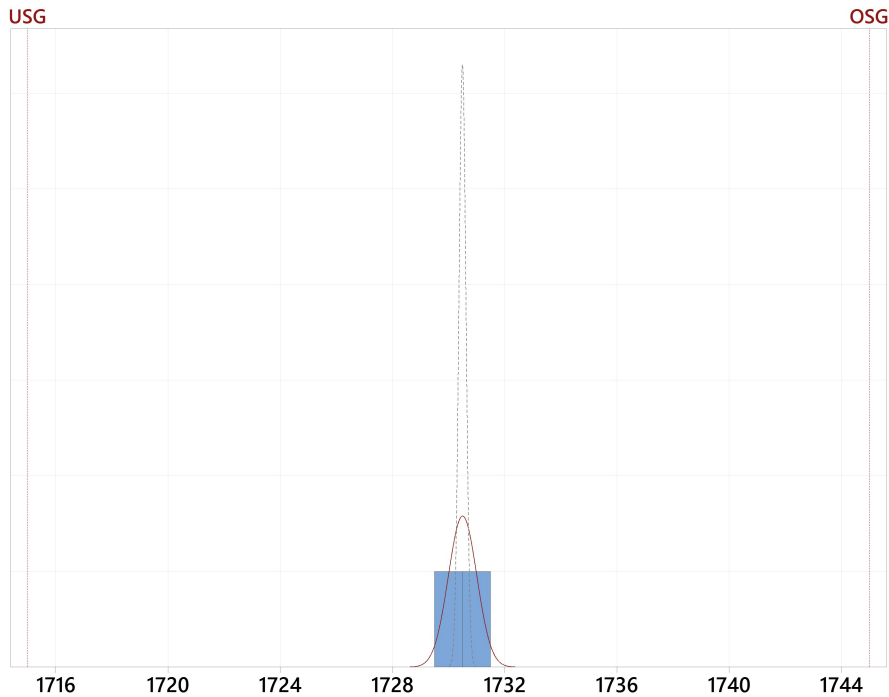
Initial process studies

PPA documents prepared by:

Date:

Prozessfähigkeitsanalyse für 1715/+30
Prozessleistungsbericht

Histogramm der Prozessfähigkeit
Liegen die Daten innerhalb der Grenzwerte?



Prozesscharakterisierung

Gesamt N	50
Teilgruppengröße	1
Mittelwert	1730,5
Standardabweichung (gesamt)	0,50508
Standardabweichung (innerhalb)	0,12665

Prozessfähigkeitsstatistiken

Gesamtprozessfähigkeit	
Pp	9,90
Ppk	9,57
Z.Bench	*
% auß. Spez. (beobachtet)	0,00
% auß. Spez. (erwartet)	0,00
PPM (DPMO) (beobachtet)	0
PPM (DPMO) (erwartet)	0
Potenziell (innerhalb)	
Cp	39,48
Cpk	38,16
Z.Bench	*
% auß. Spez. (erwartet)	0,00
PPM (DPMO) (erwartet)	0

- Die Gesamtprozessfähigkeit ist das, was der Kunde wahrnimmt.
- Die potenzielle Prozessfähigkeit (innerhalb) könnte erzielt werden, wenn Shifts und Drifts im Prozess beseitigt würden.



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18

Part submission warrant (PSW)

PPA documents prepared by:

Date:

Number: 100438

Part Submission Warrant

Part Name <u>Cable Assembly</u>		Cust. Part Number <u>MU5T-14H007-EAA1715</u>	
Shown on Drawing No. <u>LAQ-118-1715-E-E FORD</u>		Org. Part Number <u>90010405</u>	
Engineering Change Level <u>AELE E 13777777 550</u>		Dated <u>21.11.22</u>	
Additional Engineering Changes _____		Dated _____	
Safety and/or Government Regulation ☐ Yes ☒ No		Purchase Order No. _____ Weight (Kg) <u>0.015</u>	
Checking Aid No. _____		Checking Aid Engineering Change Level _____ Dated _____	
ORGANIZATION MANUFACTURING INFORMATION		CUSTOMER SUBMITTAL INFORMATION	
<u>Rosenberger Automotive Cabling KFT</u> <u>52-542-4391</u>		<u>Nursan Kablo Donanimlari</u>	
Organization Name & Supplier (Vendor) Code		Customer Name/Division	
<u>Necso Telep 1</u>		<u>17389</u>	
Street Address		Buyer/Buyer Code	
<u>Jászberény</u>	<u>5100</u>	<u>Hungary</u>	
City	Region	Postal Code	Country
		Application	
MATERIALS REPORTING			
Has Customer-required Substances of Concern information been reported? ☒ Yes ☐ No ☐ n/a			
Submitted by IMDS or other customer format: <u>1273382623 / 1</u>			
Are polymeric parts identified with appropriate ISO marking codes? ☐ Yes ☐ No ☒ n/a			
REASON FOR SUBMISSION			
☒ Initial Submission ☐ Engineering Change(s) ☐ Tooling: Transfer, Replacement, Refurbishment, or additional ☐ Correction of Discrepancy ☐ Tooling Inactive > than 1 year ☐ Change to Optional Construction or Material ☐ Sub-Supplier or Material Source Change ☐ Change in Part Processing ☐ Parts Produced at Additional Location ☐ Other - please specify _____			
REQUESTED SUBMISSION LEVEL (Check one)			
☐ Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer. ☒ Level 2 - Warrant with product samples and limited supporting data submitted to customer. ☐ Level 3 - Warrant with product samples and complete supporting data submitted to customer. ☐ Level 4 - Warrant and other requirements as defined by customer. ☐ Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.			
SUBMISSION RESULTS			
The result for ☒ dimensional measurements ☒ material and functional tests ☐ appearance criteria ☒ statistical process package			
These results meet all design and record requirements: ☒ Yes ☐ No (If "No" - Explanation Required)			
Mold / Cavity / Production Process _____			
DECLARATION			
I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of ____/____ hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.			
EXPLANATION/COMMENTS: _____			
Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No ☒ n/a			
Organization Authorized Signature <u>Aron Molnar</u>		Date <u>17.11.23</u>	
Print Name <u>Molnar, Aron</u>		Phone No. _____ Fax No. _____	
Title _____		E-mail <u>Aron.Molnar3@rosenberger.com</u>	
FOR CUSTOMER USE ONLY (IF APPLICABLE)			
Part Warrant Disposition: ☐ Approved ☐ Rejected ☐ Other _____			
Customer Signature _____		Date _____	
Print Name _____		Customer Tracking Number (optional) _____	

March 2006 CFG-1001



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Miscellaneous

PPA documents prepared by:

Date: