

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

88X0X1XXXXXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
031=Plug Female 90°
to Plug Male Straight
021=Plug Female 90°
to Plug Male Straight
with Female
Coupling Nut

Cable type: See Table

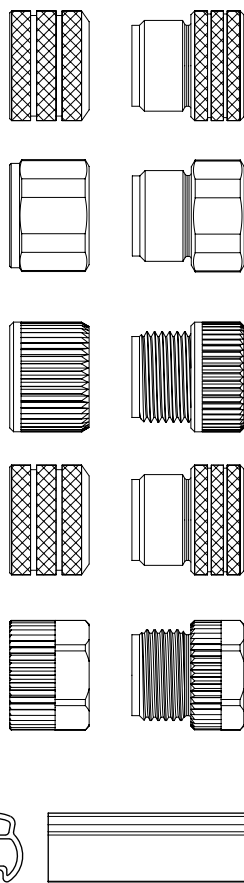
Units:
M=Meter
C=Centimeter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables Ixx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

COUPLING NUT
FEMALE MALE



CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
K03	4	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
E02	3 / 4 / 5 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
H08	8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	UL 21198/10493	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles, Temp max 60°C	-
P02	8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADD NEW PN FOR NEW LENGTH 7M

EC NO: 791338
DRWN: RSILLER
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING A3-SIZE

SERIES 120066

DOCUMENT NUMBER 1200660973

CUSTOMER GENERAL MARKET

SHEET NUMBER 2 OF 4

moLEX

CSE M12 XP AC FE RA MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200660973

DOC TYPE

PSD

DOC PART

000

REVISION

A11

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																												
	PART LIST																																																																																																																																																																																																																																																																					
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94	1200668909	883031E03M006H	0.6m																																																																																																																																																																																																																																																																			
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F	Pos.		Part No.		Engineering No.		Cable Length		Pos.		Part No.		Engineering No.		Cable Length				F	
	143		1200668210		884031H09M009		0.9m		191		1200656208		888031H08C250		2.5m					
	144		1200668484		884031H09M010		1m		192		1200656209		888031H08M005		0.5m					
	145		1200668848		884031H09M013		1.3m		193		1200656210		888031H08M008		0.8m					
	146		1200668488		884031H09M015		1.5m		194		1200656211		888031H08M012		1.2m					
	147		1200668845		884031H09M018		1.8m		195		1200656212		888031H08M015		1.5m					
	148		1200668212		884031H09M020		2m		196		1200070057		883021E03M006		0.6m					
	149		1200668847		884031H09M021		2.1m		197		1200070058		883021E03M020		2m					
	150		1200668215		884031H09M030		3m		198		1200070439		884021P03M006		0.6m					
	151		1200668670		884031H09M050		5m		199		1200070440		884021P03M010		1m					
E	152		1200668671		884031H09M100		10m		200		1200070441		884021P03M020		2m				E	
	153		1200070526		884031P03M003		0.3m		201		1200070442		884021P03M030		3m					
	154		1200070527		884031P03M006		0.6m		202		1200070870		883021P03M050		5m					
	155		1200060056		884031P03M010		1m		203		1200072191		883021E03M030		3m					
	156		1200060057		884031P03M020		2m		204		1200072198		883021E03M050		5m					
	157		1200070529		884031P03M030		3m		205		1200665038		884021E03M050		5m					
	158		1200071187		884031P03M050		5m		206		1200668061		884021E03M006		0.6m					
	159		1200072012		884031P03M100		10m		207		1200668219		884021E03M030		3m					
	160		1300288001		885031D12M020		2m		208		1200668673		888031E02M0041		0.4m					
	161		1200668658		885031E02M020		2m		209		1200669541		884031P03M015		1.5m					
D	162		1200668610		885031E02M050		5m		210		1200669885		884031E03M004		0.4m				D	
	163		1200668660		885031E02M100		10m		211		1200669886		884031E03M005		0.5m					
	164		1200668339		885031E03M006		0.6m		212		1200669887		884031E03M013		1.3m					
	165		1200668189		885031E03M010		1m		213		1200669888		884031E03M080		8m					
	166		1200668278		885031E03M020		2m		214		1200070510		883031E03M070		7m					
	167		1200668340		885031E03M030		3m													
	168		1200668279		885031E03M050		5m													
	169		1200668653		885031E03M070		7m													
	170		1200668348		885031E03M100		10m													
	171		1200668761		885031E03M150		15m													
C	172		1200669229		885031H09C250		25m												C	
	173		1200668512		885031H09M006		0.6m													
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	176		1200668514		885031H09M030		3m													
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	179		1200073085		885031P03M006		0.6m													
	180		1200668188		885031P03M010		1m													
	181		1200072376		885031P03M0105		1m													
B	182		1200070917		885031P03M020		2m												B	
	183		1200668091		885031P03M025		2.5m													
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	185		1200668273		885031P03M050		5m													
	186		1200073086		885031P03M100		10m													
	187		1200070434		884021E03M020		2m													
	188		1200658319		888031H08M050		5m													
	189		1200668673		888031E02M0041		0.4m													
	190		1200668849		888031P02M150		15m													
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DOCUMENT STATUS		P1		RELEASE DATE		2024/07/03		14:19:30												
		9		8		7		6		5		4		3		2		1		

147

1200668845

884031H09M018

1.8m

148

1200668212

884031H09M020

2m

149

1200668847

884031H09M021

2.1m

150

1200668215

884031H09M030

3m

151

1200668670

884031H09M050

5m

152

1200668671

884031H09M100

10m

153

1200070526

884031P03M003

0.3m

154

1200070527

884031P03M006

0.6m

155

1200060056

884031P03M010

1m

156

1200060057

884031P03M020

2m

157

1200070529

884031P03M030

3m

158

1200071187

884031P03M050

5m

159

1200072012

884031P03M100

10m

160

1300288001

885031D12M020

2m

161

1200668658

885031E02M020

2m

162

1200668610

885031E02M050

5m

163

1200668660

885031E02M100

10m

164

1200668339

885031E03M006

0.6m

165

1200668189

885031E03M010

1m

166

1200668278

885031E03M020

2m

167

1200668340

885031E03M030

3m

168

1200668279

885031E03M050

5m

169

1200668653

885031E03M070

7m

170

1200668348

885031E03M100

10m

171

1200668761

885031E03M150

15m

172

1200669229

885031H09C250

25m

173

1200668512

885031H09M006

0.6m

174

1200668496

885031H09M010

1m

175

1200668513

885031H09M020

2m

176

1200668514

885031H09M030

3m

177

1200668515

885031H09M050

5m

178

1200668516

885031H09M100

10m

179

1200073085

885031P03M006

0.6m

180

1200668188

885031P03M010

1m

181

1200072376

885031P03M0105

1m

182

1200070917

885031P03M020

2m

183

1200668091

885031P03M025

2.5m

184

1200070919

885031P03M030

3m

185

1200668273

885031P03M050

5m

186

1200073086

885031P03M100

10m

187

1200070434

884021E03M020

2m

188

1200658319

888031H08M050

5m

189

1200668673

888031E02M0041

0.4m

190

1200668849

888031P02M150

15m

Pos.

Part No.

Engineering No.

Cable Length

191

1200656208

888031H08C250

2.5m

192

1200656209

888031H08M005

0.5m

193

1200656210

888031H08M008

0.8m

194

1200656211

888031H08M012

1.2m

195

1200656212

888031H08M015

1.5m

196

1200070057

883021E03M006

0.6m

197

1200070058

883021E03M020

2m

198

1200070439

884021P03M006

0.6m

199

1200070440

884021P03M010

1m

200

1200070441

884021P03M020

2m

201

1200070442

884021P03M030

3m

202

1200070870

883021P03M050

5m

203

1200072191

883021E03M030

3m

204

1200072198

883021E03M050

5m

205

1200665038

884021E03M050

5m

206

1200668061

884021E03M006

0.6m

207

1200668219

884021E03M030

3m

208

1200668673

888031E02M0041

0.4m

209

1200669541

884031P03M015

1.5m

210

1200669885

884031E03M004

0.4m

211

1200669886

884031E03M005

0.5m

212

1200669887

884031E03M013

1.3m

213

1200669888

884031E03M080

8m

214

1200070510

883031E03M070

7m

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

SCALE

mm

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL

±

1.0 °

4 PLACES

±

3 PLACES

±

2 PLACES

±

0.05

1 PLACE

±

0.3

0 PLACES

±

0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120066

CURRENT REV DESC: ADD NEW PN FOR NEW LENGTH 7M

EC NO: 791338

DRWN: RSILLER

CHK'D: THAERDT

APPR: THAERDT

2024/07/03

2024/07/03

2024/07/03

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/10/06

2016/12/08

DOCUMENT NUMBER

1200660973

DOC TYPE

PSD

DOC PART

000

REVISION

A11

CSE M12 XP AC FE RA MA STR XM DE

PRODUCT CUSTOMER DRAWING

GENERAL MARKET

4 OF 4

DOCUMENT STATUS

P1

RELEASE DATE

2024/07/03

14:19:30

9

8

7

6

5

4

3

2

1

FORMAT: master-b-prod-A3

REVISION: 11

DATE: 2021/05/01

9

8

7

6

5

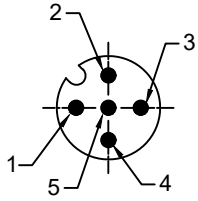
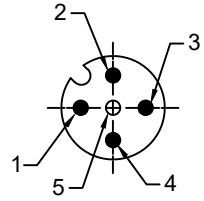
4

3

2

1

FEMALE FACE VIEW	
4 POLE	5 POLE



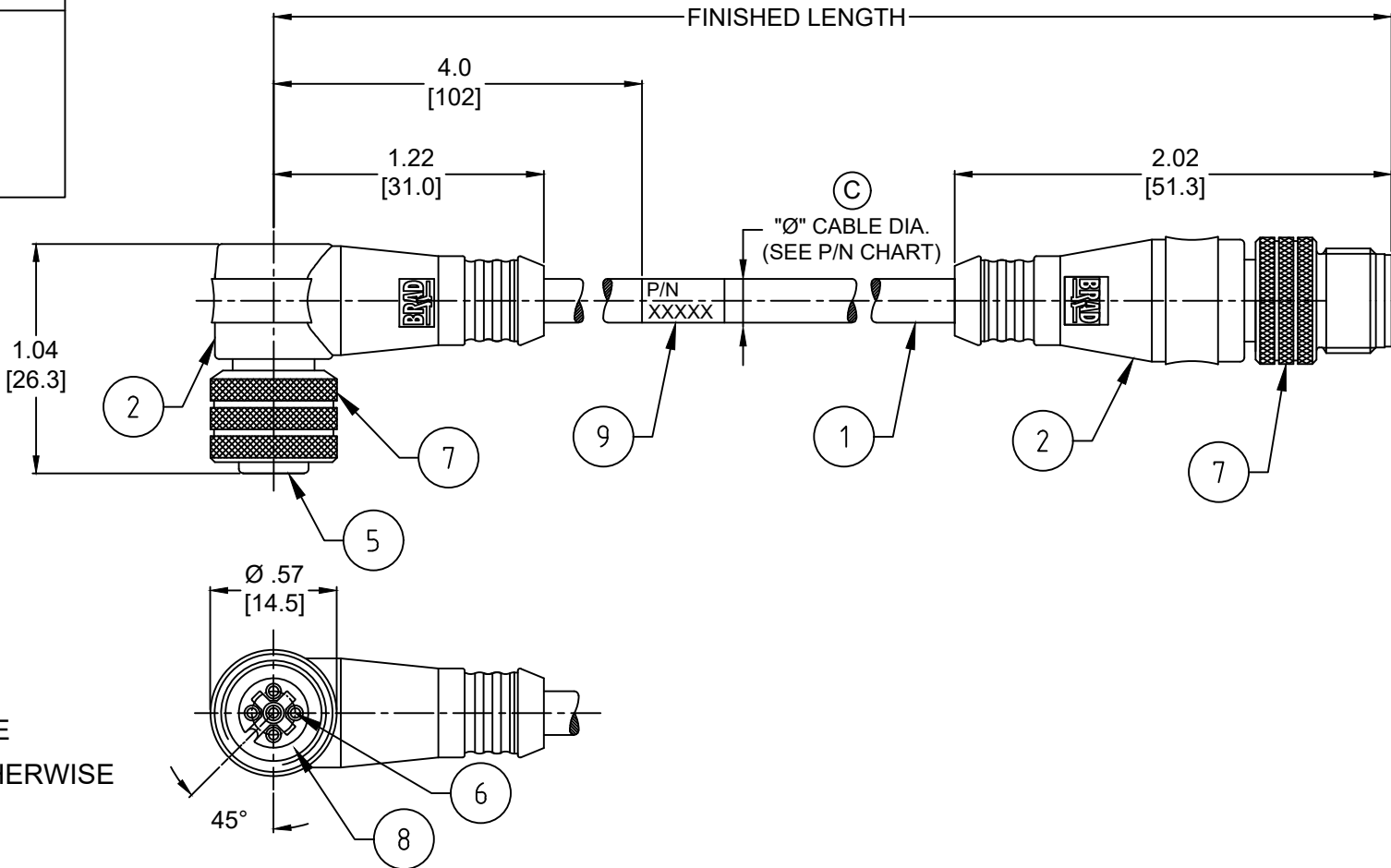
1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GRAY

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
4. TEMP RATING: -20°TO +105°C
5. PROTECTION: IP67 (WHEN MATED)
6. COUPLING THREAD: M12X1
7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837 ©
8. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

TORSIONAL FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

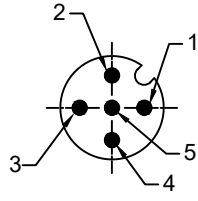
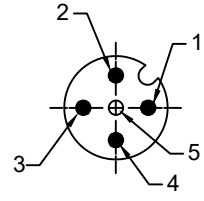
9	WRAP LABEL	VINYL	BLACK/YELLOW
8	O-RING	VITON	RED
7	COUPLER	BRASS	TEFLON/NICKEL
6	CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
5	INSERT (FEMALE)	PUR	BLACK
4	CONTACT PIN	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT (MALE)	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	CABLE #18/4-5 AWG	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

PART NO	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200660969	884031K03M003	0.3M [1FT]	4	.26/6.6
1202010015	884031K03M200	20M [65FT 7 IN]		
1200661045	885031K03M005	0.5M [1FT 8 IN]	5	.28/7.1
1200661961	885031K03M200	20M [65FT 7 IN]		

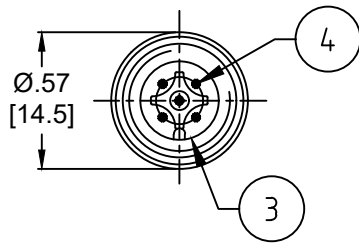


POLES	FINISHED LENGTH
(4 & 5)	M005 = 0.5 METER
	M010 = 1 METER
	M100 = 10 METER

MALE FACE VIEW	
4 POLE	5 POLE



1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GRAY



©

<.3M [1FT]: +19mm-0 [+.75in-0]
 .3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
 .9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
 1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]
 3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
 7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
 14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
 OVER 30M [100FT] +2% OF FINISHED LENGTH

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
E A =0 E C =0 E P =0	DIMENSION UNITS		SCALE		CURRENT REV DESC: ITEM #2 WAS TPE. ITEM #3 WAS MYLAR. REMOVED 3 POLE DETAILS. ADDED UL, CSA, TOL CHART & CABLE DIA. MODIFIED PN CHART & FACE VIEWS			molex							
	INCH/MM		NTS												
	GENERAL TOLERANCES (UNLESS SPECIFIED)					MICRO-CHANGE CORDSET, M12 4-5 POLE, FEMALE 90DEG - MALE STRAIGHT, SINGLE KEY, #18 AWG TPE HI-FLEX									
					PRODUCT CUSTOMER DRAWING										
					DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION					
					SD-120066-021			PSD	001	C					
DIVISIONAL SYMBOLS					ANGULAR TOL ± °			DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			A3-SIZE	120066	SEE CHART		GENERAL MARKET		1 OF 1	
					THIRD ANGLE PROJECTION										