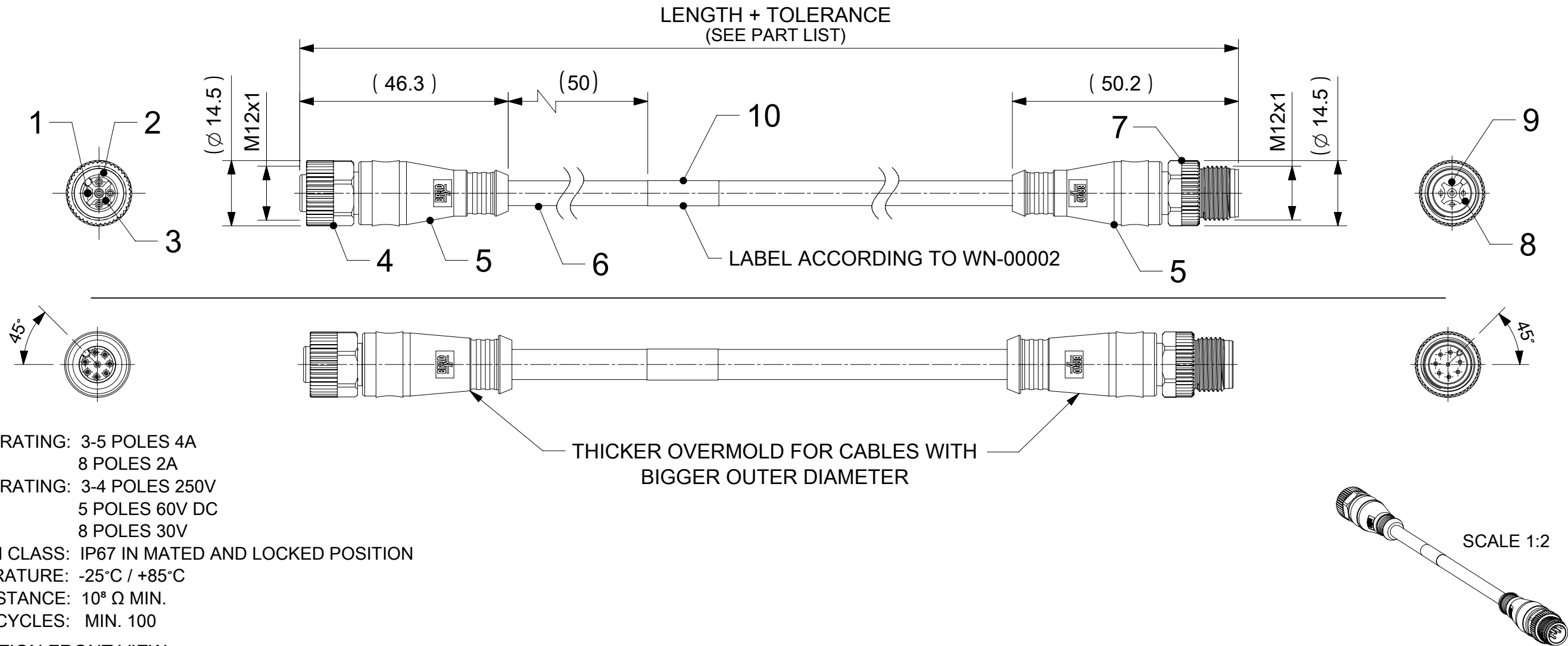


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



CABLE	3 POLES		4 POLES		5 POLES		5 POLES		8 POLES	
	B30, B55		B30, B33, B36, B55		B30, B33, B36, B55		B42		B41, B49	
FEMALE										
MALE										
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY	5	GREEN/ YELLOW	5	GREY
							5	GREEN/ YELLOW	6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS | P1 | RELEASE DATE | 2024/07/02 | 09:17:54

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
8	8		BRASS	SELECTIVE GOLD OVER NICKEL
7	1	INSERT MALE BLACK	TPU	---
6	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOULDING	TPU	SEE SHEET 2
3	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
2	1	INSERT FEMALE BLACK	PUR	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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

DIMENSION UNITS		SCALE		CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.	
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	
				MATERIAL NUMBER	
				CUSTOMER	
				SHEET NUMBER	

molex

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

1200668993

PSD 000 B

DOCUMENT NUMBER | 1200668993 | DOC TYPE | PSD | DOC PART | 000 | REVISION | B

SEE SHEET 3 & 4 | GENERAL MARKET | 1 OF 4

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

88X030XXXXXX

88=M12x1
Double ended

Poles:
3=3 Poles
4=4 Poles
5=5 Poles
8=8 Poles

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter
T=10x Meter

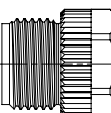
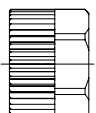
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

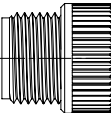
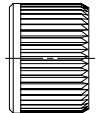
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

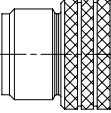
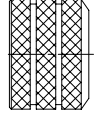
Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

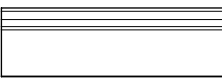
H= 2 pcs. of I/D Carrier PVC Transparent
(Cable B36 always with
2 pcs. I/D Carrier)

FEMALEMALE









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: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	-5°C to +60°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-001
B41	8	0.25mm²	TPU Black								SD-120209-006
B42	5	0.34mm²	TPU Black								SD-120209-001
B49	8	0.25mm²	TPU Orange								SD-120209-006
B55	3 / 4 / 5	0.34mm²	TPU Yellow								n/a

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

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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: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.

EC NO: 789428
DRWN: AKABADI
CHK'D: RSILLER
APPR: RSILLER

2023/03/08
2024/07/02
2024/07/02

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/07/22
2016/08/29

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668993

DOC TYPE

PSD

DOC PART

000

REVISION

B

SEE SHEET 3 & 4

GENERAL MARKET

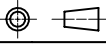
2 OF 4

10	9	8	7	6	5	4	3	2	1
PART LIST									
MOLEX PN			ENGINEERING No			L [mm]			
3P CABLE B30									
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1200668890			883030B30M010			1000			
1200668891			883030B30M020			2000			
1200668892			883030B30M030			3000			
1200668893			883030B30M050			5000			
1200668894			883030B30M100			10000			
1200669718			883030B30M150			15000			
1200669719			883030B30M200			20000			
1200669720			883030B30M250			25000			
4P CABLE B30									
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1200669923			884030B30M003			300			
1200669480			884030B30M005			500			
1200668817			884030B30M006			600			
1200668818			884030B30M010			1000			
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1200669521			884030B30M015			1500			
1200668819			884030B30M020			2000			
1200665457			884030B30M020R			2000			
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1200665458			884030B30M030R			3000			
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1200669481			884030B30M080			8000			
1200668822			884030B30M100			10000			
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1200669505			884030B30M140			14000			
1200668913			884030B30M150			15000			
1200669506			884030B30M160			16000			
1200668914			884030B30M200			20000			
1200668915			884030B30M250			25000			
1200668916			884030B30M300			30000			
1200669513			884030B30M400			40000			
1200669512			884030B30M550			55000			

MOLEX PN				ENGINEERING No				L [mm]				
5P CABLE B30												
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1200656067				885030B30M005H				500				
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1200668993				885030B30M020				2000				
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1200668994				885030B30M030				3000				
1200669482				885030B30M040				4000				
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1200669489				885030B30M250				25000				
1200669483				885030B30M300				30000				
4P CABLE B33												
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1200669575				884030B33M005A				500				
1200669223				884030B33M010				1000				
1200669576				884030B33M010A				1000				
1200669714				884030B33M015A				1500				
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1200669578				884030B33M030A				3000				
1200669280				884030B33M040				4000				
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1200669256				884030B33M300				30000				
1200669874				884030B33M300A				30000				
1200669875				884030B33M700A				70000				

MOLEX PN				ENGINEERING No				L [mm]				
5P CABLE B33												
1200669257				885030B33M005				500				
1200669901				885030B33M005A				500				
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1200669656				885030B33M010A				1000				
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1200669659				885030B33M050A				5000				
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1200669661				885030B33M150A				15000				
1200669249				885030B33M200				20000				
1200669662				885030B33M200A				20000				
1200669255				885030B33M300				30000				
1200669902				885030B33M300A				30000				
1200669903				885030B33M400A				40000				
1200669904				885030B33M500A				50000				
4P CABLE B36												
1200669524				884030B36M0057H				500				
1200669019				884030B36M0057Y				500				
1200669562				884030B36M0067Y				600				
1200669530				884030B36M0107H				1000				
1200669020				884030B36M0107Y				1000				
1200669531				884030B36M0157H				1500				
1200669021				884030B36M0157Y				1500				
1200669525				884030B36M0207H				2000				
1200669022				884030B36M0207Y				2000				
1200669526				884030B36M0307H				3000				
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1200669532				884030B36M0507H				5000				
1200668859				884030B36M0507Y				5000				
1200669025				884030B36M0607Y				6000				

MOLEX PN				ENGINEERING No				L [mm]				
4P CABLE B36												
1200669563				884030B36M0707Y				7000				
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1200669031				884030B36M3007Y				30000				
5P CABLE B36												
1200669542				885030B36M0057H				500				
1200669032				885030B36M0057Y				500				
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1200669033				885030B36M0107Y				1000				
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.						molex							
mm		1:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 789428 DRWN: AKABADI 2023/03/08 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02 INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29						CSE M12 XP AC FE STR WSOR MA STR XM DE							
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		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						A3-SIZE		120066		1200668993		PSD		000		B	
										SEE SHEET 3 & 4		GENERAL MARKET				3 OF 4	

DOCUMENT STATUS		P1	RELEASE DATE		2024/07/02	09:17:54		
10</								

	10	9	8	7	6	5	4	3	2	1		
F	PART LIST										F	
E	MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]							E	
	8P CABLE B41			4P CABLE B55								
	1200668895	888030B41M006	600	1200669734	884030B55M005Y	500						
	1200668896	888030B41M010	1000	1200669618	884030B55M010Y	1000						
	1200665461	888030B41M010R	1000	1200669263	884030B55M020Y	2000						
	1200668897	888030B41M020	2000	1200669264	884030B55M030Y	3000						
	1200665462	888030B41M020R	2000	1200669265	884030B55M040Y	4000						
	1200668898	888030B41M030	3000	1200669266	884030B55M050Y	5000						
	1200665463	888030B41M030R	3000	1200669267	884030B55M060Y	6000						
	1200665464	888030B41M040R	4000	1200669418	884030B55M070Y	7000						
D	1200668899	888030B41M050	5000	1200657251	884030B55M080Y	8000					D	
	1200665465	888030B41M050R	5000	1200657252	884030B55M090Y	9000						
	1200669177	888030B41M090	9000	1200669268	884030B55M100Y	10000						
	1200668900	888030B41M100	10000	1200669269	884030B55M120Y	12000						
	1200669567	888030B41M150	15000	1200669270	884030B55M150Y	15000						
	1200669568	888030B41M200	20000	1200657253	884030B55M160Y	16000						
	5P CABLE B42			1200669271	884030B55M200Y	20000						
	1200668823	885030B42M006	600	1200669742	884030B55M250Y	25000						
	1200668824	885030B42M010	1000	1200669743	884030B55M300Y	30000						
	1200668825	885030B42M020	2000	5P CABLE B55								
C	1200668826	885030B42M030	3000	1200669663	885030B55M010Y	1000					C	
	1200668827	885030B42M050	5000	1200669664	885030B55M020Y	2000						
	1200668828	885030B42M100	10000	1200669665	885030B55M030Y	3000						
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	8P CABLE B49			1200669668	885030B55M150Y	15000						
	1200669112	888030B49M038Y	3800	1200669669	885030B55M200Y	20000						
												B
A											A	