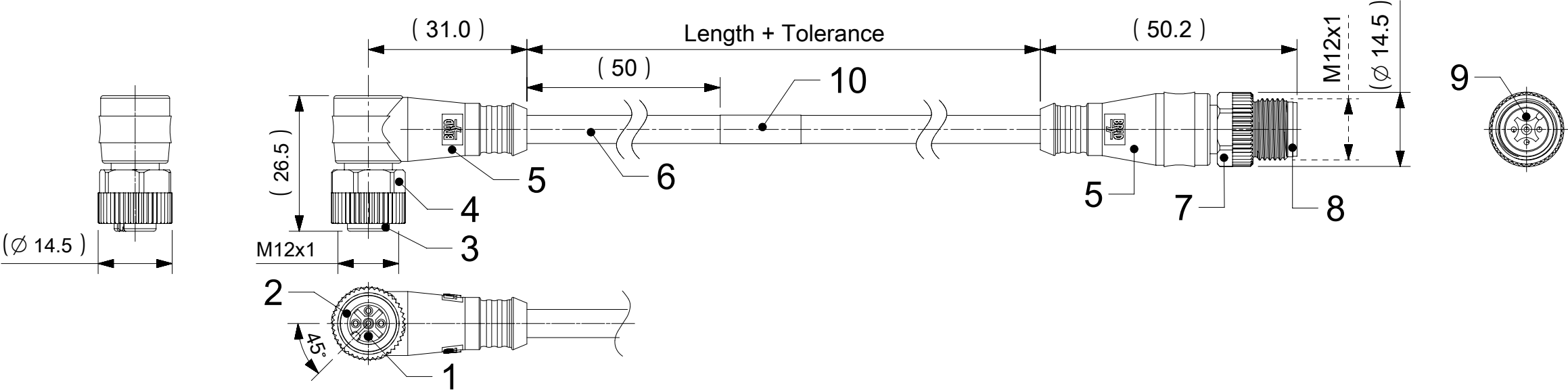


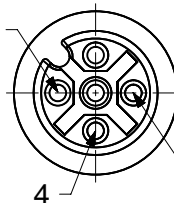
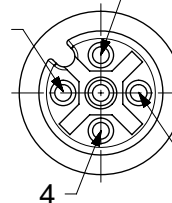
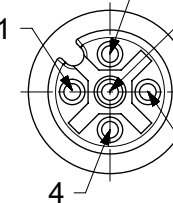
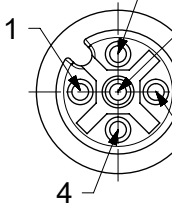
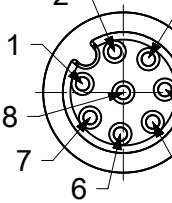
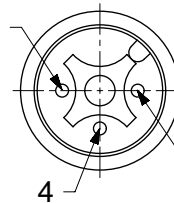
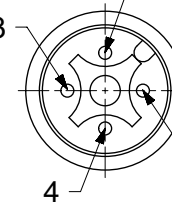
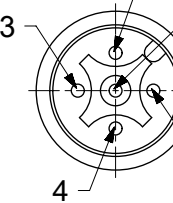
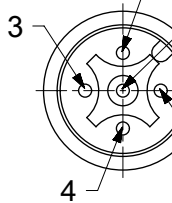
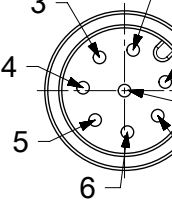
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



NOTES:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V
8 POLES 30V
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

Thicker Overmold for Cables with bigger Outer Diameter

CONTACT POSITION FRONT VIEW:

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
									6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

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		BRASS	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS

$\nabla/A = 0$

$\nabla/E = 0$

$\nabla/E = 0$

DIVISIONAL SYMBOLS

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

CURRENT REV DESC: ADDED NEW PNS

EC NO: 695290
DRWN: MDHARMANTI
CHK'D: RSILLER
APPR: RSILLER

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 1.0°

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.1

0 PLACES ± 0.2

2021/12/02

2022/02/11

2022/02/11

2016/08/12

2016/08/29

THIRD ANGLE PROJECTION

DRAWING

SERIES

120066

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 3

molex

CSE M12 XP AC FE RA WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668999

DOC TYPE

PSD

DOC PART

000

REVISION

A7

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

88X031XXXXXX

88=M12x1
Double ended

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

Heads style:
031=Plug Female 90°
to Plug Male Straight

Cable type: See Table

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

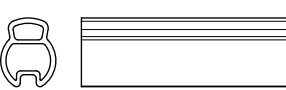
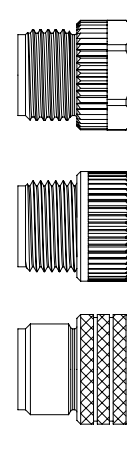
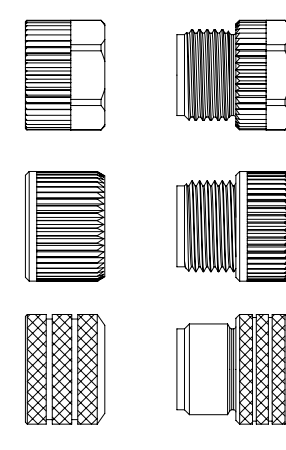
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

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
B55	4 / 5	0.34mm²	TPU Yellow								n/a

CABLE LENGTH TOLERANCES		
LENGTH	TOLERANCE	
shorter 1m	+40 mm	-0 mm
1m-5m	+60 mm	-0 mm
5m-10m	+80 mm	-0 mm
10m-20m	+140 mm	-0 mm
20m-30m	+160 mm	-0 mm
longer 30m	+1%	-0 mm

FUNCTIONAL SYMBOLS

= 0

= 0

= 0

DIVISIONAL SYMBOLS

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 ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW PNS

EC NO: 695290

DRWN: MDHARMANTI

CHK'D: RSILLER

APPR: RSILLER

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120066

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 3



CSE M12 XP AC FE RA WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668999

DOC TYPE

PSD

DOC PART

000

REVISION

A7

DOCUMENT STATUS

P1

RELEASE DATE

2022/02/11

06:52:46

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																										
	PART LIST																																																																																																																																																																																																																																																																			
F	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>1</td><td>1200668877</td><td>883031B30M006</td><td>600</td></tr><tr><td>2</td><td>1200668878</td><td>883031B30M010</td><td>1000</td></tr><tr><td>3</td><td>1200668879</td><td>883031B30M020</td><td>2000</td></tr><tr><td>4</td><td>1200668880</td><td>883031B30M030</td><td>3000</td></tr><tr><td>5</td><td>1200668881</td><td>883031B30M050</td><td>5000</td></tr><tr><td>6</td><td>1200668882</td><td>883031B30M100</td><td>10000</td></tr><tr><td>7</td><td>1200668829</td><td>884031B30M006</td><td>600</td></tr><tr><td>8</td><td>1200668830</td><td>884031B30M010</td><td>1000</td></tr><tr><td>9</td><td>1200668831</td><td>884031B30M020</td><td>2000</td></tr><tr><td>10</td><td>1200668832</td><td>884031B30M030</td><td>3000</td></tr><tr><td>11</td><td>1200668833</td><td>884031B30M050</td><td>5000</td></tr><tr><td>12</td><td>1200668834</td><td>884031B30M100</td><td>10000</td></tr><tr><td>13</td><td>1200669285</td><td>884031B30M150</td><td>15000</td></tr><tr><td>14</td><td>1200669520</td><td>884031B30M015</td><td>1500</td></tr><tr><td>15</td><td>1200669566</td><td>884031B30M200</td><td>20000</td></tr><tr><td>16</td><td>1200668997</td><td>885031B30M006</td><td>600</td></tr><tr><td>17</td><td>1200668998</td><td>885031B30M010</td><td>1000</td></tr><tr><td>18</td><td>1200668999</td><td>885031B30M020</td><td>2000</td></tr><tr><td>19</td><td>1200669000</td><td>885031B30M030</td><td>3000</td></tr><tr><td>20</td><td>1200669001</td><td>885031B30M050</td><td>5000</td></tr><tr><td>21</td><td>1200669002</td><td>885031B30M100</td><td>10000</td></tr><tr><td>22</td><td>1200669241</td><td>885031B30M0067</td><td>600</td></tr><tr><td>23</td><td>1200669243</td><td>885031B30M0207</td><td>2000</td></tr><tr><td>24</td><td>1200669371</td><td>885031B30M010H</td><td>1000</td></tr><tr><td>25</td><td>1200669677</td><td>885031B30M150</td><td>15000</td></tr><tr><td>26</td><td>1200669678</td><td>885031B30M200</td><td>20000</td></tr></table>				Lp.	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MOLEX PN	ENGINEERING No	L [mm]	43	1200669672	885031B33M030A	3000	44	1200669673	885031B33M050A	5000	45	1200669674	885031B33M100A	10000	46	1200669675	885031B33M150A	15000	47	1200669676	885031B33M200A	20000	48	1200669908	885031B33M005A	500	49	1200669909	885031B33M300A	300000	50	1200669910	885031B33M400A	400000	51	1200669911	885031B33M500A	500000	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>81</td><td>1200669056</td><td>884031B36M1507Y</td><td>15000</td></tr><tr><td>82</td><td>1200669057</td><td>884031B36M2007Y</td><td>20000</td></tr><tr><td>83</td><td>1200669058</td><td>884031B36M2507Y</td><td>25000</td></tr><tr><td>84</td><td>1200669059</td><td>884031B36M3007Y</td><td>30000</td></tr><tr><td>85</td><td>1200669534</td><td>884031B36M0057H</td><td>500</td></tr><tr><td>86</td><td>1200669535</td><td>884031B36M0107H</td><td>1000</td></tr><tr><td>87</td><td>1200669536</td><td>884031B36M0157H</td><td>1500</td></tr><tr><td>88</td><td>1200669537</td><td>884031B36M0207H</td><td>2000</td></tr><tr><td>89</td><td>1200669538</td><td>884031B36M0307H</td><td>3000</td></tr><tr><td>90</td><td>1200669539</td><td>884031B36M0507H</td><td>5000</td></tr><tr><td>91</td><td>1200669540</td><td>884031B36M1007H</td><td>10000</td></tr><tr><td>92</td><td>1200669564</td><td>884031B36M0067Y</td><td>600</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	81	1200669056	884031B36M1507Y	15000	82	1200669057	884031B36M2007Y	20000	83	1200669058	884031B36M2507Y	25000	84	1200669059	884031B36M3007Y	30000	85	1200669534	884031B36M0057H	500	86	1200669535	884031B36M0107H	1000	87	1200669536	884031B36M0157H	1500	88	1200669537	884031B36M0207H	2000	89	1200669538	884031B36M0307H	3000	90	1200669539	884031B36M0507H	5000	91	1200669540	884031B36M1007H	10000	92	1200669564	884031B36M0067Y	600	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>100</td><td>1200669272</td><td>884031B55M010Y</td><td>1000</td></tr><tr><td>101</td><td>1200669273</td><td>884031B55M020Y</td><td>2000</td></tr><tr><td>102</td><td>1200669274</td><td>884031B55M030Y</td><td>3000</td></tr><tr><td>103</td><td>1200669275</td><td>884031B55M050Y</td><td>5000</td></tr><tr><td>104</td><td>1200669276</td><td>884031B55M060Y</td><td>6000</td></tr><tr><td>105</td><td>1200669277</td><td>884031B55M100Y</td><td>10000</td></tr><tr><td>106</td><td>1200669278</td><td>884031B55M150Y</td><td>15000</td></tr><tr><td>107</td><td>1200669419</td><td>884031B55M070Y</td><td>7000</td></tr><tr><td>108</td><td>1200669420</td><td>884031B55M200Y</td><td>20000</td></tr><tr><td>109</td><td>1200669730</td><td>884031B55M005Y</td><td>500</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	100	1200669272	884031B55M010Y	1000	101	1200669273	884031B55M020Y	2000	102	1200669274	884031B55M030Y	3000	103	1200669275	884031B55M050Y	5000	104	1200669276	884031B55M060Y	6000	105	1200669277	884031B55M100Y	10000	106	1200669278	884031B55M150Y	15000	107	1200669419	884031B55M070Y	7000	108	1200669420	884031B55M200Y	20000	109	1200669730	884031B55M005Y	500
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13	1200669285	884031B30M150	15000																																																																																																																																																																																																																																																																	
14	1200669520	884031B30M015	1500																																																																																																																																																																																																																																																																	
15	1200669566	884031B30M200	20000																																																																																																																																																																																																																																																																	
16	1200668997	885031B30M006	600																																																																																																																																																																																																																																																																	
17	1200668998	885031B30M010	1000																																																																																																																																																																																																																																																																	
18	1200668999	885031B30M020	2000																																																																																																																																																																																																																																																																	
19	1200669000	885031B30M030	3000																																																																																																																																																																																																																																																																	
20	1200669001	885031B30M050	5000																																																																																																																																																																																																																																																																	
21	1200669002	885031B30M100	10000																																																																																																																																																																																																																																																																	
22	1200669241	885031B30M0067	600																																																																																																																																																																																																																																																																	
23	1200669243	885031B30M0207	2000																																																																																																																																																																																																																																																																	
24	1200669371	885031B30M010H	1000																																																																																																																																																																																																																																																																	
25	1200669677	885031B30M150	15000																																																																																																																																																																																																																																																																	
26	1200669678	885031B30M200	20000																																																																																																																																																																																																																																																																	
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43	1200669672	885031B33M030A	3000																																																																																																																																																																																																																																																																	
44	1200669673	885031B33M050A	5000																																																																																																																																																																																																																																																																	
45	1200669674	885031B33M100A	10000																																																																																																																																																																																																																																																																	
46	1200669675	885031B33M150A	15000																																																																																																																																																																																																																																																																	
47	1200669676	885031B33M200A	20000																																																																																																																																																																																																																																																																	
48	1200669908	885031B33M005A	500																																																																																																																																																																																																																																																																	
49	1200669909	885031B33M300A	300000																																																																																																																																																																																																																																																																	
50	1200669910	885031B33M400A	400000																																																																																																																																																																																																																																																																	
51	1200669911	885031B33M500A	500000																																																																																																																																																																																																																																																																	
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81	1200669056	884031B36M1507Y	15000																																																																																																																																																																																																																																																																	
82	1200669057	884031B36M2007Y	20000																																																																																																																																																																																																																																																																	
83	1200669058	884031B36M2507Y	25000																																																																																																																																																																																																																																																																	
84	1200669059	884031B36M3007Y	30000																																																																																																																																																																																																																																																																	
85	1200669534	884031B36M0057H	500																																																																																																																																																																																																																																																																	
86	1200669535	884031B36M0107H	1000																																																																																																																																																																																																																																																																	
87	1200669536	884031B36M0157H	1500																																																																																																																																																																																																																																																																	
88	1200669537	884031B36M0207H	2000																																																																																																																																																																																																																																																																	
89	1200669538	884031B36M0307H	3000																																																																																																																																																																																																																																																																	
90	1200669539	884031B36M0507H	5000																																																																																																																																																																																																																																																																	
91	1200669540	884031B36M1007H	10000																																																																																																																																																																																																																																																																	
92	1200669564	884031B36M0067Y	600																																																																																																																																																																																																																																																																	
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100	1200669272	884031B55M010Y	1000																																																																																																																																																																																																																																																																	
101	1200669273	884031B55M020Y	2000																																																																																																																																																																																																																																																																	
102	1200669274	884031B55M030Y	3000																																																																																																																																																																																																																																																																	
103	1200669275	884031B55M050Y	5000																																																																																																																																																																																																																																																																	
104	1200669276	884031B55M060Y	6000																																																																																																																																																																																																																																																																	
105	1200669277	884031B55M100Y	10000																																																																																																																																																																																																																																																																	
106	1200669278	884031B55M150Y	15000																																																																																																																																																																																																																																																																	
107	1200669419	884031B55M070Y	7000																																																																																																																																																																																																																																																																	
108	1200669420	884031B55M200Y	20000																																																																																																																																																																																																																																																																	
109	1200669730	884031B55M005Y	500																																																																																																																																																																																																																																																																	
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