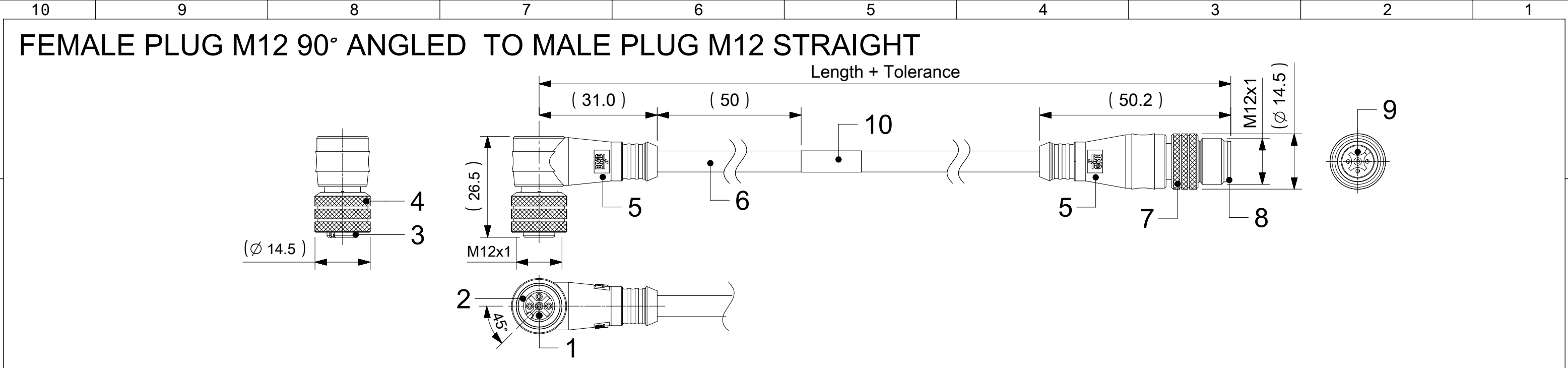


10	9	8	7	6	5	4	3	2	1
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NOTES:

7.7

The technical drawing illustrates a cable connector assembly from three perspectives. The top view shows a side profile where the connector is joined to a cable; a vertical dimension line on the left indicates a length of 7.7 units. The middle view is a front-facing perspective of the connector, highlighting its cylindrical form and various internal features like a central pin and surrounding insulation. The bottom view provides a cross-sectional look at the connector's interior, revealing the arrangement of conductive wires and their protective layers.

RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

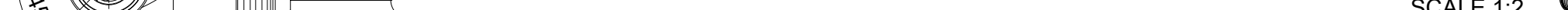
Thicker Overmold for Cables with bigger Outer Diameter



8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

45°

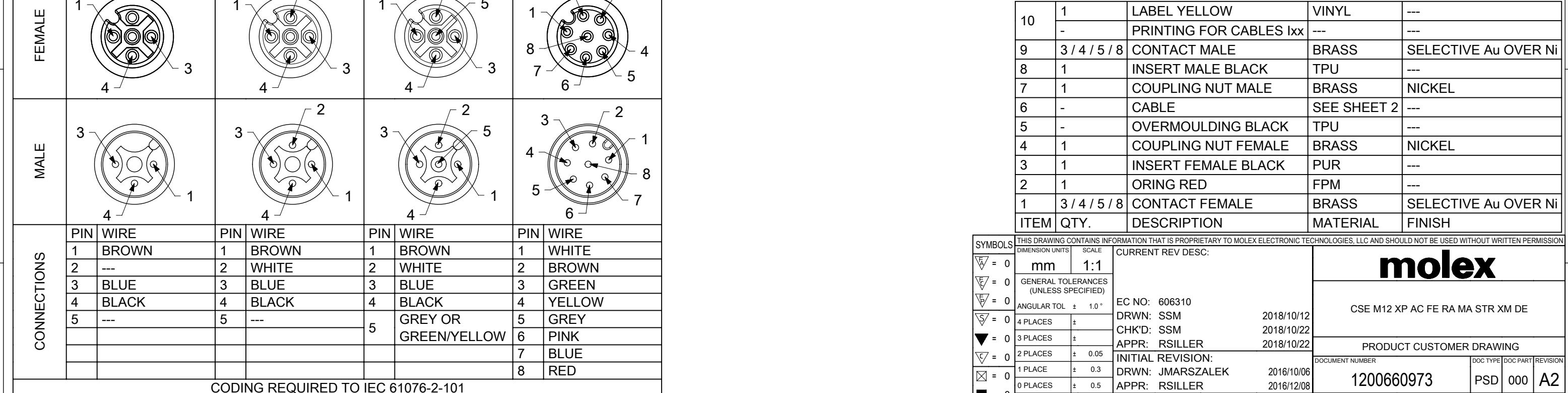
SCALE 1:2



CONTACTS POSITION FRONT VIEW:			

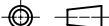
	3 CONTACTS	4 CONTACTS	5 CONTACTS	8 CONTACTS

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
9	3 / 4 / 5 / 8	CONTACT MALE	BRASS	SELECTIVE Au OVER Ni
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	BRASS	NICKEL
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

SYMBOLS		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:				molex			
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 606310 DRWN: SSM 2018/10/12 CHK'D: SSM 2018/10/22 APPR: RSILLER 2018/10/22				CSE M12 XP AC FE RA MA STR XM DE					
ANGULAR TOL ± 1.0°											
4 PLACES ±		INITIAL REVISION: DRWN: JMARSZALEK 2016/10/06 APPR: RSILLER 2016/12/08				DOCUMENT NUMBER 1200660973		DOC TYPE PSD	DOC PART 000	REVISION A2	
3 PLACES ±											
2 PLACES ± 0.05		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066	
1 PLACE ± 0.3											
0 PLACES ± 0.5		MATERIAL NUMBER SEE PART LIST				CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 4			

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

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

Options:

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

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
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
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 LSOH	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.	-	-

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

SYMBOLS

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DIMENSION UNITS

SCALE

CURRENT REV DESC:

mm

1:1

EC NO: 606310
DRWN: SSM 2018/10/12
CHK'D: SSM 2018/10/22
APPR: RSILLER 2018/10/22

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

A3-SIZE

120066

SEE PART LIST

GENERAL MARKET

2 OF 4

mo

lex

CSE M12 XP AC FE RA MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200660973

DOC TYPE

PSD

DOC PART

000

REVISION

A2

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

DOCUMENT STATUS

P1

RELEASE DATE

2018/10/22

12:08:09

10987654321

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F	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>1</td><td>1200060052</td><td>884031I20M005</td><td>0.5m</td></tr> <tr><td>2</td><td>1200060053</td><td>884031I20M010</td><td>1m</td></tr> <tr><td>3</td><td>1200060054</td><td>884031I20M015</td><td>1.5m</td></tr> <tr><td>4</td><td>1200060055</td><td>884031I20M020</td><td>2m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	1	1200060052	884031I20M005	0.5m	2	1200060053	884031I20M010	1m	3	1200060054	884031I20M015	1.5m	4	1200060055	884031I20M020	2m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>36</td><td>1200071575</td><td>884031P82M006</td><td>0.6m</td></tr> <tr><td>37</td><td>1200071576</td><td>884031P82M010</td><td>1m</td></tr> <tr><td>38</td><td>1200071577</td><td>884031P82M015</td><td>1.5m</td></tr> <tr><td>39</td><td>1200071578</td><td>884031P82M0307</td><td>3m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	36	1200071575	884031P82M006	0.6m	37	1200071576	884031P82M010	1m	38	1200071577	884031P82M015	1.5m	39	1200071578	884031P82M0307	3m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>71</td><td>1200660947</td><td>884031B02M100</td><td>10m</td></tr> <tr><td>72</td><td>1200660971</td><td>884031K03M006</td><td>0.6m</td></tr> <tr><td>73</td><td>1200660973</td><td>884031K03M010</td><td>1m</td></tr> <tr><td>74</td><td>1200660975</td><td>884031K03M015</td><td>1.5m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	71	1200660947	884031B02M100	10m	72	1200660971	884031K03M006	0.6m	73	1200660973	884031K03M010	1m	74	1200660975	884031K03M015	1.5m	<table> <tr><th>Pos.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>106</td><td>1200070447</td><td>884021S20M030</td><td>3m</td></tr> <tr><td>107</td><td>1200070449</td><td>884021S20M050</td><td>5m</td></tr> <tr><td>108</td><td>1200668042</td><td>883021S20M006</td><td>0.6m</td></tr> <tr><td>109</td><td>1200668043</td><td>883021S20M020</td><td>2m</td></tr> </table>				Pos.	Part No.	Engineering No.	Cable Length	106	1200070447	884021S20M030	3m	107	1200070449	884021S20M050	5m	108	1200668042	883021S20M006	0.6m	109	1200668043	883021S20M020	2m																																																																												
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E	<table> <tr><td>5</td><td>1200070132</td><td>883031I03M003</td><td>0.3m</td></tr> <tr><td>6</td><td>1200070133</td><td>883031I03M006</td><td>0.6m</td></tr> <tr><td>7</td><td>1200070134</td><td>883031I03M010</td><td>1m</td></tr> <tr><td>8</td><td>1200070136</td><td>883031I03M020</td><td>2m</td></tr> <tr><td>9</td><td>1200070137</td><td>883031I03M030</td><td>3m</td></tr> <tr><td>10</td><td>1200070138</td><td>883031I03M050</td><td>5m</td></tr> <tr><td>11</td><td>1200070152</td><td>883031S20M010</td><td>1m</td></tr> <tr><td>12</td><td>1200070153</td><td>883031S20M020</td><td>2m</td></tr> <tr><td>13</td><td>1200070156</td><td>883031S20M050</td><td>5m</td></tr> </table>				5	1200070132	883031I03M003	0.3m	6	1200070133	883031I03M006	0.6m	7	1200070134	883031I03M010	1m	8	1200070136	883031I03M020	2m	9	1200070137	883031I03M030	3m	10	1200070138	883031I03M050	5m	11	1200070152	883031S20M010	1m	12	1200070153	883031S20M020	2m	13	1200070156	883031S20M050	5m	<table> <tr><td>40</td><td>1200071579</td><td>884031P82M050</td><td>5m</td></tr> <tr><td>41</td><td>1200071581</td><td>884031P82M020</td><td>2m</td></tr> <tr><td>42</td><td>1200071832</td><td>884031I20M050</td><td>5m</td></tr> <tr><td>43</td><td>1200071833</td><td>884031I20M100</td><td>10m</td></tr> <tr><td>44</td><td>1200071893</td><td>884031S20M100</td><td>10m</td></tr> <tr><td>45</td><td>1200071994</td><td>885031P82M0307</td><td>3m</td></tr> <tr><td>46</td><td>1200072696</td><td>883031S20M010H</td><td>1m</td></tr> <tr><td>47</td><td>1200072725</td><td>885031I26M005</td><td>0.5m</td></tr> <tr><td>48</td><td>1200072726</td><td>885031I26M010</td><td>1m</td></tr> <tr><td>49</td><td>1200659070</td><td>884031I20M010Y</td><td>1m</td></tr> </table>				40	1200071579	884031P82M050	5m	41	1200071581	884031P82M020	2m	42	1200071832	884031I20M050	5m	43	1200071833	884031I20M100	10m	44	1200071893	884031S20M100	10m	45	1200071994	885031P82M0307	3m	46	1200072696	883031S20M010H	1m	47	1200072725	885031I26M005	0.5m	48	1200072726	885031I26M010	1m	49	1200659070	884031I20M010Y	1m	<table> <tr><td>75</td><td>1200660976</td><td>884031K03M020</td><td>2m</td></tr> <tr><td>76</td><td>1200660977</td><td>884031K03M030</td><td>3m</td></tr> <tr><td>77</td><td>1200660978</td><td>884031K03M040</td><td>4m</td></tr> <tr><td>78</td><td>1200660980</td><td>884031K03M050</td><td>5m</td></tr> <tr><td>79</td><td>1200660982</td><td>884031K03M060</td><td>6m</td></tr> <tr><td>80</td><td>1200660983</td><td>884031K03M070</td><td>7m</td></tr> <tr><td>81</td><td>1200660984</td><td>884031K03M090</td><td>9m</td></tr> <tr><td>82</td><td>1200660985</td><td>884031K03M100</td><td>10m</td></tr> <tr><td>83</td><td>1200665007</td><td>884031P82M0157</td><td>1.5m</td></tr> <tr><td>84</td><td>1200665039</td><td>884031S20M003</td><td>0.3m</td></tr> </table>				75	1200660976	884031K03M020	2m	76	1200660977	884031K03M030	3m	77	1200660978	884031K03M040	4m	78	1200660980	884031K03M050	5m	79	1200660982	884031K03M060	6m	80	1200660983	884031K03M070	7m	81	1200660984	884031K03M090	9m	82	1200660985	884031K03M100	10m	83	1200665007	884031P82M0157	1.5m	84	1200665039	884031S20M003	0.3m	<table> <tr><td>110</td><td>1200668044</td><td>883021S20M030</td><td>3m</td></tr> <tr><td>111</td><td>1200668160</td><td>883021S20M010</td><td>1m</td></tr> <tr><td>112</td><td>1200668608</td><td>883031E02M020</td><td>2m</td></tr> <tr><td>113</td><td>1200668613</td><td>883031E02M030</td><td>3m</td></tr> <tr><td>114</td><td>1200659035</td><td>883031E02M050</td><td>5m</td></tr> <tr><td>115</td><td>1200668612</td><td>883031E02M100</td><td>10m</td></tr> <tr><td>116</td><td>1200668908</td><td>883031E03M003H</td><td>0.3m</td></tr> <tr><td>117</td><td>1200070118</td><td>883031E03M006</td><td>0.6m</td></tr> <tr><td>118</td><td>1200668909</td><td>883031E03M006H</td><td>0.6m</td></tr> <tr><td>119</td><td>1200070119</td><td>883031E03M010</td><td>1m</td></tr> </table>				110	1200668044	883021S20M030	3m	111	1200668160	883021S20M010	1m	112	1200668608	883031E02M020	2m	113	1200668613	883031E02M030	3m	114	1200659035	883031E02M050	5m	115	1200668612	883031E02M100	10m	116	1200668908	883031E03M003H	0.3m	117	1200070118	883031E03M006	0.6m	118	1200668909	883031E03M006H	0.6m	119	1200070119	883031E03M010	1m
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45	1200071994	885031P82M0307	3m																																																																																																																																																																									
46	1200072696	883031S20M010H	1m																																																																																																																																																																									
47	1200072725	885031I26M005	0.5m																																																																																																																																																																									
48	1200072726	885031I26M010	1m																																																																																																																																																																									
49	1200659070	884031I20M010Y	1m																																																																																																																																																																									
75	1200660976	884031K03M020	2m																																																																																																																																																																									
76	1200660977	884031K03M030	3m																																																																																																																																																																									
77	1200660978	884031K03M040	4m																																																																																																																																																																									
78	1200660980	884031K03M050	5m																																																																																																																																																																									
79	1200660982	884031K03M060	6m																																																																																																																																																																									
80	1200660983	884031K03M070	7m																																																																																																																																																																									
81	1200660984	884031K03M090	9m																																																																																																																																																																									
82	1200660985	884031K03M100	10m																																																																																																																																																																									
83	1200665007	884031P82M0157	1.5m																																																																																																																																																																									
84	1200665039	884031S20M003	0.3m																																																																																																																																																																									
110	1200668044	883021S20M030	3m																																																																																																																																																																									
111	1200668160	883021S20M010	1m																																																																																																																																																																									
112	1200668608	883031E02M020	2m																																																																																																																																																																									
113	1200668613	883031E02M030	3m																																																																																																																																																																									
114	1200659035	883031E02M050	5m																																																																																																																																																																									
115	1200668612	883031E02M100	10m																																																																																																																																																																									
116	1200668908	883031E03M003H	0.3m																																																																																																																																																																									
117	1200070118	883031E03M006	0.6m																																																																																																																																																																									
118	1200668909	883031E03M006H	0.6m																																																																																																																																																																									
119	1200070119	883031E03M010	1m																																																																																																																																																																									
D	<table> <tr><td>14</td><td>1200070522</td><td>884031I03M020</td><td>2m</td></tr> <tr><td>15</td><td>1200070523</td><td>884031I03M030</td><td>3m</td></tr> <tr><td>16</td><td>1200070534</td><td>884031S20M030</td><td>3m</td></tr> <tr><td>17</td><td>1200070651</td><td>884031I03M006</td><td>0.6m</td></tr> <tr><td>18</td><td>1200070768</td><td>884031S20M050</td><td>5m</td></tr> <tr><td>19</td><td>1200070783</td><td>884031S20M100H</td><td>10m</td></tr> <tr><td>20</td><td>1200071010</td><td>884031P82M100</td><td>10m</td></tr> <tr><td>21</td><td>1200071096</td><td>884031P82M0037</td><td>0.3m</td></tr> <tr><td>22</td><td>12000711</td></tr></table>	14	1200070522	884031I03M020	2m	15	1200070523	884031I03M030	3m	16	1200070534	884031S20M030	3m	17	1200070651	884031I03M006	0.6m	18	1200070768	884031S20M050	5m	19	1200070783	884031S20M100H	10m	20	1200071010	884031P82M100	10m	21	1200071096	884031P82M0037	0.3m	22	12000711																																																																																																																																									
14	1200070522	884031I03M020	2m																																																																																																																																																																									
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16	1200070534	884031S20M030	3m																																																																																																																																																																									
17	1200070651	884031I03M006	0.6m																																																																																																																																																																									
18	1200070768	884031S20M050	5m																																																																																																																																																																									
19	1200070783	884031S20M100H	10m																																																																																																																																																																									
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22	12000711																																																																																																																																																																											

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