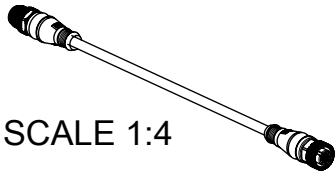


CONNECTOR SPECIFICATION / Steckverbindungs-Eigenschaften		
VOLTAGE RATING/Betriebsspannung	250V AC/DC	4 POL
	30V AC/DC	8 POL
AMPERAGE RATING/Bemessungsstrom	max. 4 AMPS (40°C)	4 POL
	max. 2 AMPS (40°C)	8 POL
PROTECTION/IP-Schutzart	IP67	4 + 8 POL
OPERATING TEMPERATURE/Temperaturbereich	max. -40°C TO +90°C	4 + 8 POL

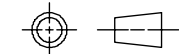
POS.	DESCRIPTION	MATERIAL	FINISH
1	INSERT MALE	PUR	BLACK
2	CONTACT MALE	BRASS (8P) COPPER ALLOY (4P)	GOLD OVER NICKEL
3	NUT MALE	BRASS	NICKEL PLATED
4	OVERMOULD	TPU	RED
5	NUT FEMALE	BRASS	NICKEL PLATED
6	INSERT FEMALE	PUR	BLACK
7	CONTACT FEMALE	BRASS (8P) COPPER ALLOY (4P)	GOLD OVER NICKEL
8	GASKET	FPM	RED
9	CABLE	PUR	BLACK

TABLE 1

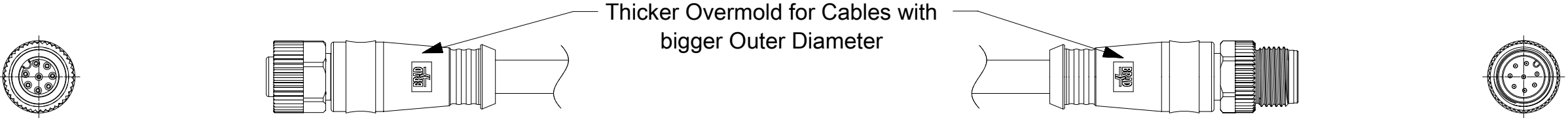
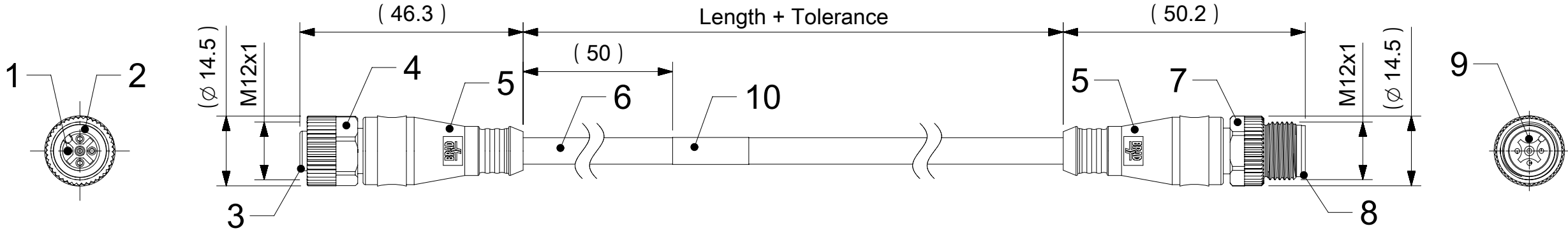
POL	MATERIAL-NO.	ENGINEERING-NR.	L [mm]	TOLERANCE [mm]
4 POL	1200665456	884030B30M010R	1000	+20mm /-10mm
	1200665457	884030B30M020R	2000	±25mm
	1200665458	884030B30M030R	3000	±25mm
	1200665459	884030B30M040R	4000	±25mm
	1200665460	884030B30M050R	5000	±25mm
8 POL	1200665461	888030B41M010R	1000	+20mm /-10mm
	1200665462	888030B41M020R	2000	±25mm
	1200665463	888030B41M030R	3000	±25mm
	1200665464	888030B41M040R	4000	±25mm
	1200665465	888030B41M050R	5000	±25mm



SCALE 1:4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
QUALITY SYMBOLS		EC NO: 104087 DRWN: CBURGER CHK'D: APPR: CBRUNS	2016/04/06 2016/04/07	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		DIMENSION UNITS		SCALE		<div>molex</div> CSE M12 4P AC MA STR PUR FE STR 1M DE UNSH BK BRASS AU				
MM						2:1								
DRWN BY						DATE								
EJESKE						2015/11/02								
CHK'D BY						DATE								
APPR BY						DATE		PRODUCT CUSTOMER DRAWING						
RSILLER						2015/12/02								
DRAWING SIZE						THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER			CUSTOMER		
A3								120066	SEE TABLE 1			GENERAL MARKET		
								DOCUMENT NUMBER			DOC TYPE	DOC PART	SHEET NUMBER	
				1200665456			PSD	000	1 OF 1					

FEMALE PLUG M12 STRAIGHT 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

CONTACT POSITION FRONT VIEW:

3 POLES		4 POLES		5 POLES		5 POLES		8 POLES		
CABLE	B30, B55	B30, B33, B36, 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 / 8	CONTACT M12 MALE	BRASS	SELECTIVE GOLD OVER NICKEL
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 M12 FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

QUALITY SYMBOLS

= 0

= 0

= 0

= 0

= 0

= 0

= 0

= 0

= 0

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

2016/07/22

EC NO: 107467

DRWN: JMARSZALEK

CHK'D: CHKD

APPR: APPR

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

DIMENSION UNITS

MM

DRWN BY

JMARSZALEK

CHK'D BY

DATE

APPR BY

DATE

DRAWING SIZE

A3

THIRD ANGLE PROJECTION

SCALE

1:1

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

SERIES

120066

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

DOCUMENT NUMBER

1200668993

DOC TYPE

PSD

DOC PART

000

SHEET NUMBER

1 OF 3

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

OPTIONS

8

8

X

0

3

0

X

X

X

X

X

X

X

X

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

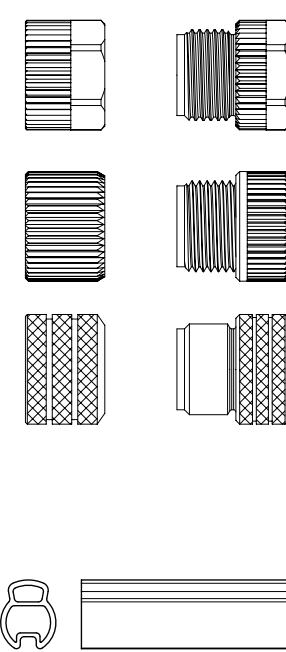
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

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
(Cables lxx & P82 always with
2 pcs. I/D Carrier)

FEMALE

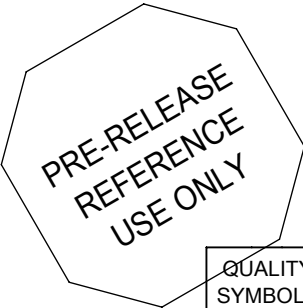
MALE



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: 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	
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



QUALITY SYMBOLS

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

2016/07/22

EC NO: 107467
DRWN: JMARSZALEK
CHK'D:
APPR:

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

DIMENSION UNITS
MM

SCALE
1:1

DRWN BY
JMARSZALEK

DATE
2016/07/22

CHK'D BY

DATE

APPR BY

DATE

DRAWING SIZE
A3

THIRD ANGLE PROJECTION

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

SERIES
120066

MATERIAL NUMBER
SEE SHEET 3

CUSTOMER
GENERAL MARKET

DOCUMENT NUMBER
1200668993

DOC TYPE
PSD

DOC PART
000

SHEET NUMBER
2 OF 3

RELEASE STATUS

RQ

RELEASE DATE

12.08.2016

15:12:33

9

8

7

6

5

4

3

2

1

Pos.

Part No.

Engineering No.

Cable Length

1

1200659548

885030B42M150

15m

2

1200659549

885030B42M200

20m

3

1200659666

885030B30M005

0.5m

4

1200659667

885030B30M025

2.5m

5

1200665456

884030B30M010R

1m

6

1200665461

888030B41M010R

1m

7

1200668817

884030B30M006

0.6m

8

1200668818

884030B30M010

1m

9

1200668819

884030B30M020

2m

10

1200668820

884030B30M030

3m

11

1200668821

884030B30M050

5m

12

1200668822

884030B30M100

10m

13

1200668823

885030B42M006

0.6m

14

1200668824

885030B42M010

1m

15

1200668825

885030B42M020

2m

16

1200668826

885030B42M030

3m

17

1200668827

885030B42M050

5m

18

1200668828

885030B42M100

10m

19

1200668859

884030B36M0507Y

5m

20

1200668860

884030B36M1007Y

10m

21

1200668863

884030B30M070

7m

22

1200668870

888030B41M038

3.8m

23

1200668889

883030B30M006

0.6m

24

1200668890

883030B30M010

1m

25

1200668891

883030B30M020

2m

26

1200668892

883030B30M030

3m

27

1200668893

883030B30M050

5m

28

1200668894

883030B30M100

10m

29

1200668895

888030B41M006

0.6m

30

1200668896

888030B41M010

1m

31

1200668897

888030B41M020

2m

32

1200668898

888030B41M030

3m

33

1200668899

888030B41M050

5m

34

1200668900

888030B41M100

10m

35

1200668913

884030B30M150

15m

Pos.

Part No.

Engineering No.

Cable Length

36

1200668914

884030B30M200

20m

37

1200668915

884030B30M250

25m

38

1200668916

884030B30M300

30m

39

1200668991

885030B30M006

0.6m

40

1200668992

885030B30M010

1m

41

1200668993

885030B30M020

2m

42

1200668994

885030B30M030

3m

43

1200668995

885030B30M050

5m

44

1200668996

885030B30M100

10m

45

1200669017

888030B49M015Y

1.5m

46

1200669019

884030B36M0057Y

0.5m

47

1200669020

884030B36M0107Y

1m

48

1200669021

884030B36M0157Y

1.5m

49

1200669022

884030B36M0207Y

2m

50

1200669023

884030B36M0307Y

3m

51

1200669024

884030B36M0407Y

4m

52

1200669025

884030B36M0607Y

6m

53

1200669026

884030B36M0807Y

8m

54

1200669027

884030B36M1207Y

12m

55

1200669028

884030B36M1507Y

15m

56

1200669029

884030B36M2007Y

20m

57

1200669030

884030B36M2507Y

25m

58

1200669031

884030B36M3007Y

30m

59

1200669032

885030B36M0057Y

0.5m

60

1200669033

885030B36M0107Y

1m

61

1200669034

885030B36M0207Y

2m

62

1200669035

885030B36M0307Y

3m

63

1200669036

885030B36M0407Y

4m

64

1200669037

885030B36M0507Y

5m

65

1200669038

885030B36M0607Y

6m

66

1200669039

885030B36M0807Y

8m

67

1200669040

885030B36M1007Y

10m

68

1200669041

885030B36M1207Y

12m

69

1200669042

885030B36M1507Y

15m

70

1200669043

885030B36M1807Y

18m

Pos.

Part No.

Engineering No.

Cable Length

71

1200669044

885030B36M2007Y

20m

72

1200669045

885030B36M2507Y

25m

73

1200669046

885030B36M3007Y

30m

74

1200669112

888030B49M038Y

3.8m

75

1200669140

885030B36M8507Y

85m

76

1200669142

884030B30M0105

1m

77

1200669143

884030B30M0505

5m

78

1200669144

884030B30M025

2.5m

79

1200669145

885030B30M015

1.5m

80

1200669157

884030B30M002

0.2m

81

1200669158

884030B30M030R

3m

82

1200669177

888030B41M090

9m

83

1200669181

884030B30M040

4m

84

1200669182

884030B30M060

6m

85

1200669223

884030B33M010

1m

86

1200669224

884030B33M020

2m

87

1200669225

884030B33M030

3m

88

1200669226

884030B33M050

5m

89

1200669242

885030B30M0107

1m

90

1200669247

885030B33M020

2m

91

1200669248

885030B33M100

10m

92

1200669249

885030B33M200

20m

93

1200669250

884030B33M005

0.5m

94

1200669251

884030B33M100

10m

95

1200669252

884030B33M200

20m

96

1200669253

885030B33M030

3m

97

1200669254

885030B33M050

5m

98

1200669255

885030B33M300

30m

99

1200669256

884030B33M300

30m

100

1200669257

885030B33M005

0.5m

101

1200669258

885030B33M010

1m

102

1200669263

884030B55M020

2m

103

1200669264

884030B55M030

3m

104

1200669265

884030B55M040

4m

105

1200669266

884030B55M050

5m

Pos.

Part No.

Engineering No.

Cable Length

106

1200669267

884030B55M060

6m

107

1200669268

884030B55M100

10m

108

1200669269

884030B55M120

12m

109

1200669270

884030B55M150

15m

110

1200669271

884030B55M200

20m

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

Pos.

Part No.

Engineering No.

Cable Length

106

1200669267

884030B55M060

6m

107

1200669268

884030B55M100

10m

108

1200669269

884030B55M120

12m

109

1200669270

884030B55M150

15m

110

1200669271

884030B55M200

20m

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

9

8

7

6

5

4

3

2

1

Pos.

Part No.

Engineering No.

Cable Length

1

1200659548

885030B42M150

15m

2

1200659549

885030B42M200

20m

3

1200659666

885030B30M005

0.5m

4

1200659667

885030B30M025

2.5m

5

1200665456

884030B30M010R

1m

6

1200665461

888030B41M010R

1m

7

1200668817

884030B30M006

0.6m

8

1200668818

884030B30M010

1m

9

1200668819

884030B30M020

2m

10

1200668820

884030B30M030

3m

11

1200668821

884030B30M050

5m

12

1200668822

884030B30M100

10m

13

1200668823

885030B42M006

0.6m

14

1200668824

885030B42M010

1m

15

1200668825

885030B42M020

2m

16

1200668826

885030B42M030

3m

17

1200668827

885030B42M050

5m

18

1200668828

885030B42M100

10m

19

1200668859

884030B36M0507Y

5m

20

1200668860

884030B36M1007Y

10m

21

1200668863

884030B30M070

7m

22

1200668870

888030B41M038

3.8m

23

1200668889

883030B30M006

0.6m

24

1200668890

883030B30M010

1m

25

1200668891

883030B30M020

2m

26

1200668892

883030B30M030

3m

27

1200668893

883030B30M050

5m

28

1200668894

883030B30M100

10m

29

1200668895

888030B41M006

0.6m

30

1200668896

888030B41M010

1m

31

1200668897

888030B41M020

2m

32

1200668898

888030B41M030

3m

33

1200668899

888030B41M050

5m

34

1200668900

888030B41M100

10m

35

1200668913

884030B30M150

15m

Pos.

Part No.

Engineering No.

Cable Length

36

1200668914

884030B30M200

20m

37

1200668915

884030B30M250

25m

38

1200668916

884030B30M300

30m

39

1200668991

885030B30M006

0.6m

40

1200668992

885030B30M010

1m

41

1200668993

885030B30M020

2m

42

1200668994

885030B30M030

3m

43

1200668995

885030B30M050

5m

44

1200668996

885030B30M100

10m

45

1200669017

888030B49M015Y

1.5m

46

1200669019

884030B36M0057Y

0.5m

47

1200669020

884030B36M0107Y

1m

48

1200669021

884030B36M0157Y

1.5m

49

1200669022

884030B36M0207Y

2m

50

1200669023

884030B36M0307Y

3m

51

1200669024

884030B36M0407Y

4m

52

1200669025

884030B36M0607Y

6m

53

1200669026

884030B36M0807Y

8m

54

1200669027

884030B36M1207Y

12m

55

1200669028

884030B36M1507Y

15m

56

1200669029

884030B36M2007Y

20m

57

1200669030

884030B36M2507Y

25m

58

1200669031

884030B36M3007Y

30m

59

1200669032

885030B36M0057Y

0.5m

60

1200669033

885030B36M0107Y

1m

61

1200669034

885030B36M0207Y

2m

62

1200669035

885030B36M0307Y

3m

63

1200669036

885030B36M0407Y

4m

64

1200669037

885030B36M0507Y

5m

65

1200669038

885030B36M0607Y

6m

66

1200669039

885030B36M0807Y

8m

67

1200669040

885030B36M1007Y

10m

68

1200669041

885030B36M1207Y

12m

69

1200669042

885030B36M1507Y

15m

70

1200669043

885030B36M1807Y

18m

Pos.

Part No.

Engineering No.

Cable Length

71

1200669044

885030B36M2007Y

20m

72

1200669045

885030B36M2507Y

25m

73

1200669046

885030B36M3007Y

30m

74

1200669112

888030B49M038Y

3.8m

75

1200669140

885030B36M8507Y

85m

76

1200669142

884030B30M0105

1m

77

1200669143

884030B30M0505

5m

78

1200669144

884030B30M025

2.5m

79

1200669145

885030B30M015

1.5m

80

1200669157

884030B30M002

0.2m

81

1200669158

884030B30M030R

3m

82

1200669177

888030B41M090

9m

83

1200669181

884030B30M040

4m

84

1200669182

884030B30M060

6m

85

1200669223

884030B33M010

1m

86

12006692