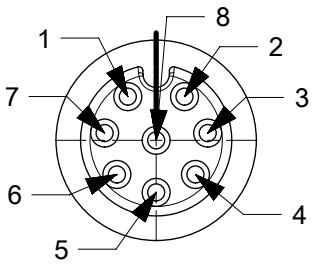


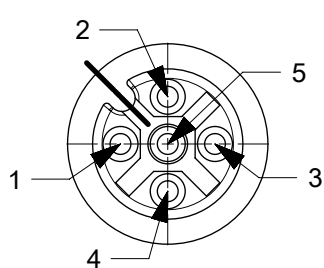
VIEWS FROM THE FRONT SIDE
 FEMALE

8 POLE



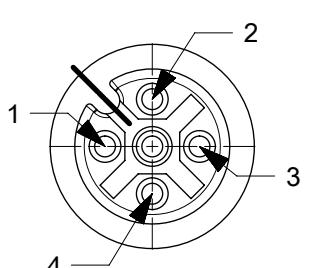
Pin	Wire color
1	WH
2	BN
3	GN
4	YE
5	GY
6	PK
7	BU
8	RD

5 POLE



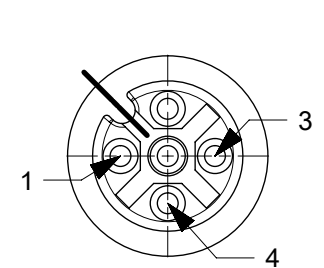
Pin	Wire color
1	BN
2	WH
3	BU
4	BK
5	GY OR GN/YE

4 POLE

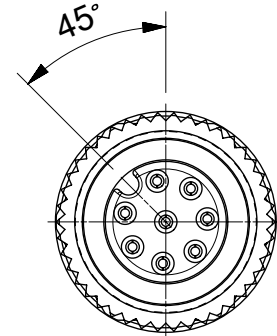
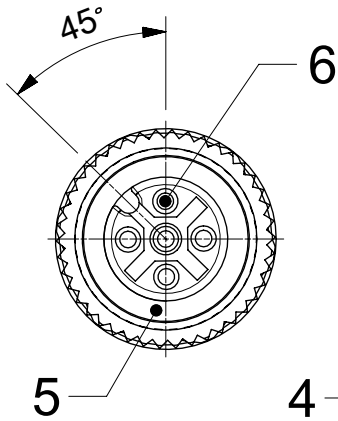


Pin	Wire color
1	BN
2	WH
3	BU
4	BK

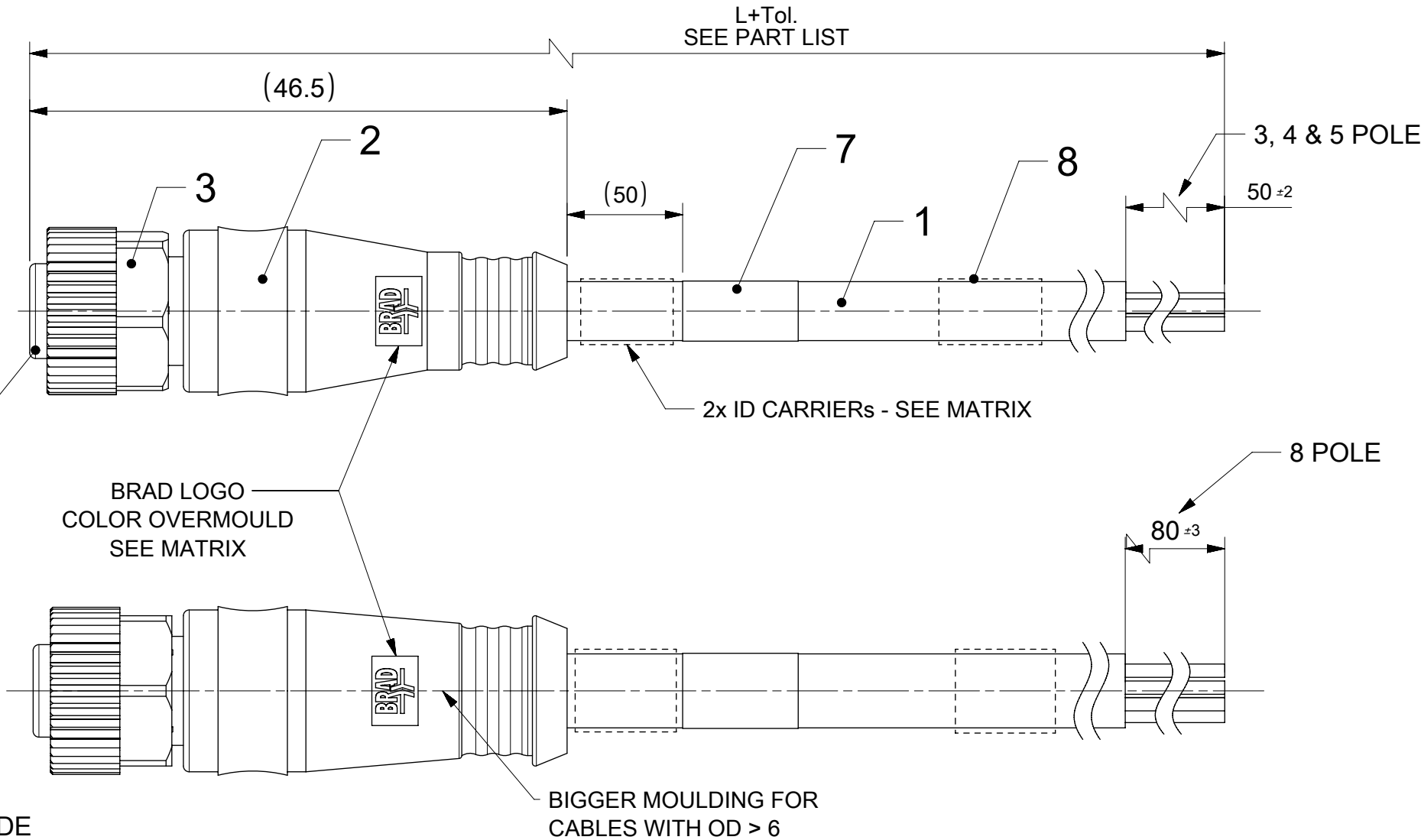
3 POLE



Pin	Wire color
1	BN
3	BU
4	BK



VIEWS FROM THE FRONT SIDE



NOTES:

TEMPERATURE RANGE : SEE CABLE LIST
 RATED VOLTAGE: 3, 4 contacts : 250V
 5 contacts : 60V
 8 contacts : 30V
 RATED CURRENT: 3, 4, 5 contacts : 4A
 8 contacts : 2A

INSULATION RESISTANCE: 10⁸ Ω MIN.
 MATING CYCLES: MIN. 100
 ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION

BILL OF MATERIAL

8	0/2	I/D CARRIER	-	-
7	1	LABEL	VINYL	YELLOW
6	3/4/5/8	CONTACTS	BRASS	GOLD OVER Ni-PLATED
5	1	GASKET	FPM	RED
4	1	FEMALE INSERT	PUR	BLACK
3	1	COUPLING NUT	BRASS	Ni-PLATED
2	-	OVERMOULD	TPU	BLACK
1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

INSULATION RESISTANCE: 10⁸ Ω MIN.
 MATING CYCLES: MIN. 100
 ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION

DOCUMENT STATUS	P1	RELEASE DATE	2024/06/11	05:15:45
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Functional symbols table, MoLEX logo, product information (CSE M12 XP AC FE STR WSOR XM SE UNSH BK), revision history, and document control details.

The diagram shows a 16-character code: 8 0 X 0 0 0 B X X X X X X X X. Below the code, 15 callout boxes provide details:

- 8**: 80 = M12x1 SINGLE ENDED
- 0**: POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES
- X 0 0 0**: HEADER:
000 = FEMALE STRAIGHT
- B**: CABLE:
B30 = 0,34mm², TPU BLACK
B33 = 0,34mm², TPU GREY
B36 = 0,34mm², TPU ORANGE
B39 = 0,75mm², TPU BLACK
B41 = 0,25mm², TPU BLACK
B42 = 0,34mm², TPU BLACK
B49 = 0,25mm², TPU ORANGE
B55 = 0,34mm², TPU YELLOW
- X**: UNIT:
M = METER
C = CENTIMETER
T = 10 x METER
- X X X X X X X X**: LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m
- X X X X X X X X**: OVERMOLD COLOR:
BLANK (STANDARD) =
A = GY, G = BK, Y = YE
COUPLING NUT:
BLANK (STANDARD) =
KNURLED/HEX BRASS
5 = KNURLED DERLIN
7 = KNURLED BRASS
TEFLON COATED
H = 2x ID CARRIERS
ALWAYS FOR CABLE

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL 21215	CSA	ISO6722	ISO14572	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	OTHER
B30	3 / 4 / 5	0.34mm²	TPU Black	YES	YES	YES	YES	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	WELD SLAG RESISTANCE
B41	8	0.25mm²	TPU Black								
B42	5	0.34mm²	TPU Black								
B33	4 / 5	0.34mm²	TPU Gray								
B55	4 / 5	0.34mm²	TPU Yellow								
B36	4 / 5	0.34mm²	TPU Orange								
B39	5	0.34mm²	TPU Yellow								

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

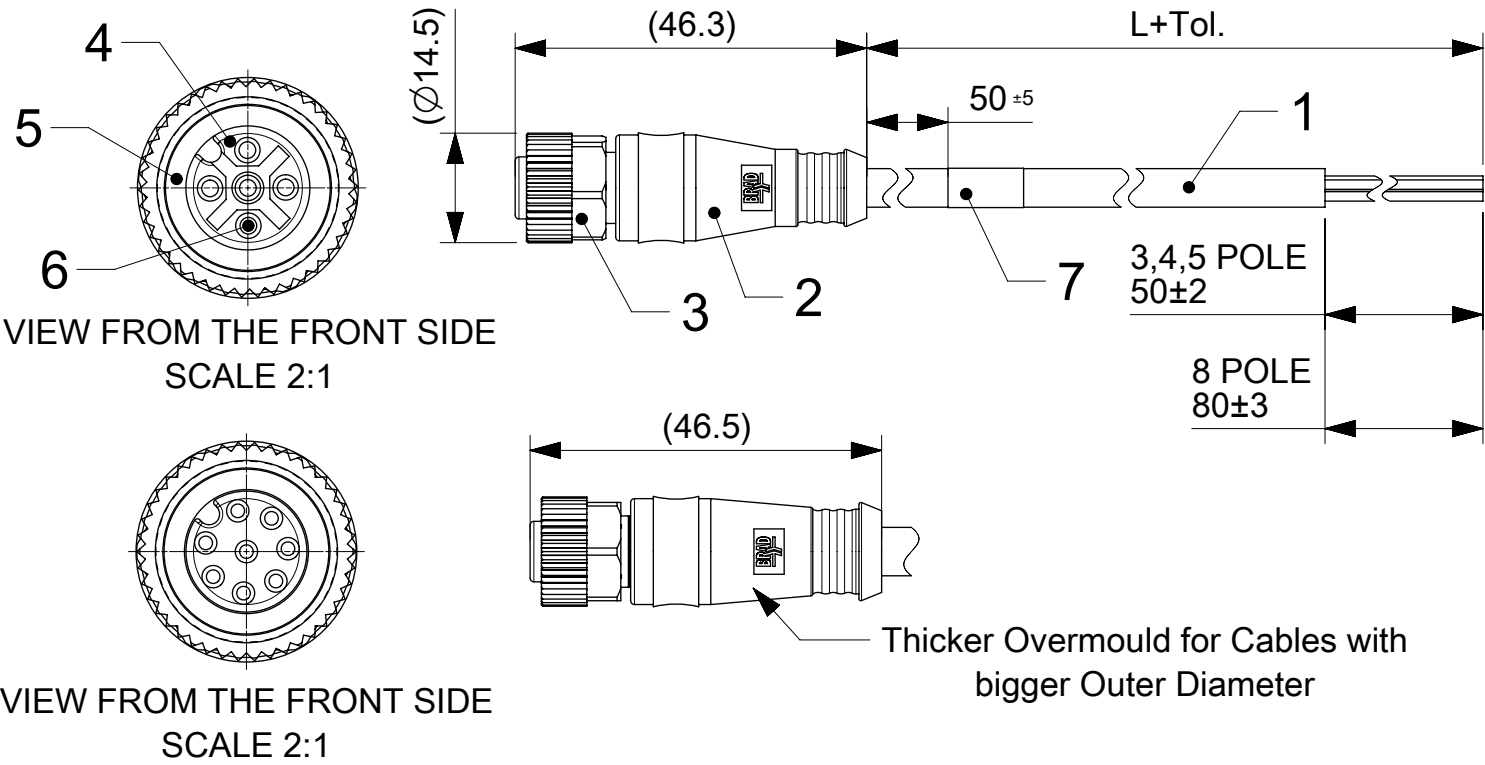
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
	DIMENSION UNITS		SCALE		CURRENT REV DESC: CABLE LIST INFORMATION ADDED			molex								
	mm		1:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE STR WSOR XM SE UNSH BK								
	ANGULAR TOL ± 1.0°															
	4 PLACES		±													
	3 PLACES		±		EC NO: 788824 DRWN: RSCHIEBER 2024/06/07 CHK'D: RSILLER 2024/06/11 APPR: RSILLER 2024/06/11			PRODUCT CUSTOMER DRAWING								
	2 PLACES		± 0.05													
	1 PLACE		± 0.3		INITIAL REVISION: DRWN: SSM 2021/12/16 APPR: RSILLER 2022/02/28			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION				
	0 PLACES		± 0.5					1200652251		PSD	000	B1				
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
							A3-SIZE		120065		SEE PART LIST		GENERAL MARKET		2 OF 3	

F

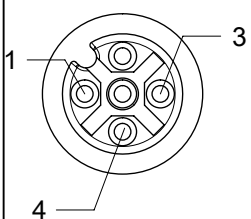
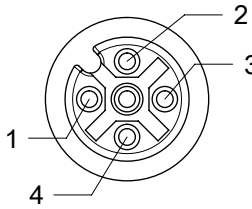
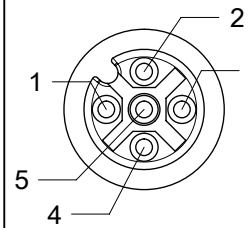
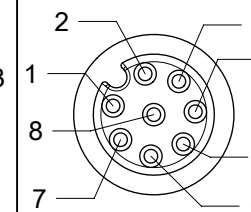
EDBCA

1

NOTES:
RATED VOLTAGE:
3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT:
3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67



CONTACTS POSITION FRONT VIEW:

	3 CONTACTS	4 CONTACTS	5 CONTACTS	8 CONTACTS																																																
FEMALE																																																				
CONNECTIONS	<table><tr><th>PIN</th><th>WIRE</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr></table>	PIN	WIRE	1	BROWN	3	BLUE	4	BLACK	<table><tr><th>PIN</th><th>WIRE</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>WHITE</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr></table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	<table><tr><th>PIN</th><th>WIRE</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>WHITE</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr><tr><td>5</td><td>GREY OR GREEN/YELLOW</td></tr></table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	5	GREY OR GREEN/YELLOW	<table><tr><th>PIN</th><th>WIRE</th></tr><tr><td>1</td><td>WHITE</td></tr><tr><td>2</td><td>BROWN</td></tr><tr><td>3</td><td>GREEN</td></tr><tr><td>4</td><td>YELLOW</td></tr><tr><td>5</td><td>GREY</td></tr><tr><td>6</td><td>PINK</td></tr><tr><td>7</td><td>BLUE</td></tr><tr><td>8</td><td>RED</td></tr></table>	PIN	WIRE	1	WHITE	2	BROWN	3	GREEN	4	YELLOW	5	GREY	6	PINK	7	BLUE	8	RED
PIN	WIRE																																																			
1	BROWN																																																			
3	BLUE																																																			
4	BLACK																																																			
PIN	WIRE																																																			
1	BROWN																																																			
2	WHITE																																																			
3	BLUE																																																			
4	BLACK																																																			
PIN	WIRE																																																			
1	BROWN																																																			
2	WHITE																																																			
3	BLUE																																																			
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3	GREEN																																																			
4	YELLOW																																																			
5	GREY																																																			
6	PINK																																																			
7	BLUE																																																			
8	RED																																																			

FOR OPTION SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YE	VINYL	-
6	3/4/5/8	CONTACT FE	BRASS	GOLD OVER Ni-PLATED
5	1	GASKET RD	FPM	-
4	1	INSERT M12 FE XP BK	PUR	-
3	1	COUPLING NUT M12 FE	SEE SHEET 2	SEE SHEET 2
2	-	OVERMOULDING	SEE SHEET 2	SEE SHEET 2
1	-	CABLE	SEE SHEET 2	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS

$\nabla_A = 0$

$\nabla_E = 0$

$\nabla_F = 0$

DIVISIONAL SYMBOLS

DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: STANDARDIZATION

EC NO: 681756

DRWN: MKOWALCZYK01

CHK'D: ALEKSP3

APPR: KMARCINIAK01

INITIAL REVISION:

DRWN: AKONDRACIUK

APPR: MIWASIECZKO

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

CSE M12 XP AC FE STR WSOR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200652251

DOC TYPE

PSD

DOC PART

00P

REVISION

B2

SEE PART LIST

1 OF 2

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

8

0

X

0

0

0

B

X

X

M

X

X

X

X

88 = M12x1
SINGLE ENDED

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES

HEADER:
000 = PLUG FEMALE STRARIGHT

CABLE TYPE:
SEE TABLE

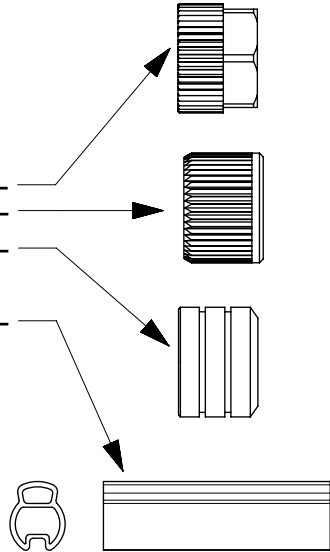
UNIT:
M = METER

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

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 B36 always with
2 pcs. I/D Carrier)



OPTIONS

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 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	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray							SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange							SD-120209-001
B39	5	0.75mm²	TPU Gray							n/a
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

TABLE OF LENGTH TOLERANCES				
OVER	UP TO AND INCLUDING	TOLERANCE		
0	1000	+40 0		
1000	5000	+60 0		
5000	10000	+80 0		
10000	20000	+140 0		
20000	30000	+160 0		
30000	>	+1% OF LENGTH		
DOCUMENT STATUS	P1	RELEASE DATE	2021/10/18	12:08:57

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: STANDARDIZATION			
DIVISIONAL SYMBOLS	FUNCTIONAL SYMBOLS	DIMENSION UNITS	SCALE	molex		
	FUNCTIONAL SYMBOLS	mm	1:1			
	FUNCTIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)				
	FUNCTIONAL SYMBOLS	ANGULAR TOL	± °	CSE M12 XP AC FE STR WSOR XM SE UNSH		
	FUNCTIONAL SYMBOLS	4 PLACES	±			
	FUNCTIONAL SYMBOLS	3 PLACES	±			
	FUNCTIONAL SYMBOLS	2 PLACES	±	PRODUCT CUSTOMER DRAWING		
	FUNCTIONAL SYMBOLS	1 PLACE	±			
	FUNCTIONAL SYMBOLS	0 PLACES	±	INITIAL REVISION:		
	FUNCTIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: AKONDRACIUK	2016/11/26	2016/12/06
	FUNCTIONAL SYMBOLS	THIRD ANGLE PROJECTION		APPR: MIWASIECZKO	2016/11/26	2016/12/06
	FUNCTIONAL SYMBOLS	DRAWING		SERIES	MATERIAL NUMBER	CUSTOMER
	FUNCTIONAL SYMBOLS	A3-SIZE		120065	SEE PART LIST	
	FUNCTIONAL SYMBOLS	SHEET NUMBER		2 OF 2		

FORMAT: master-b-prod-A3
REVISION: 11
DATE: 2021/05/01

9

8

7

6

5

4

3

2

1