

F

E

D

C

B

A

F

E

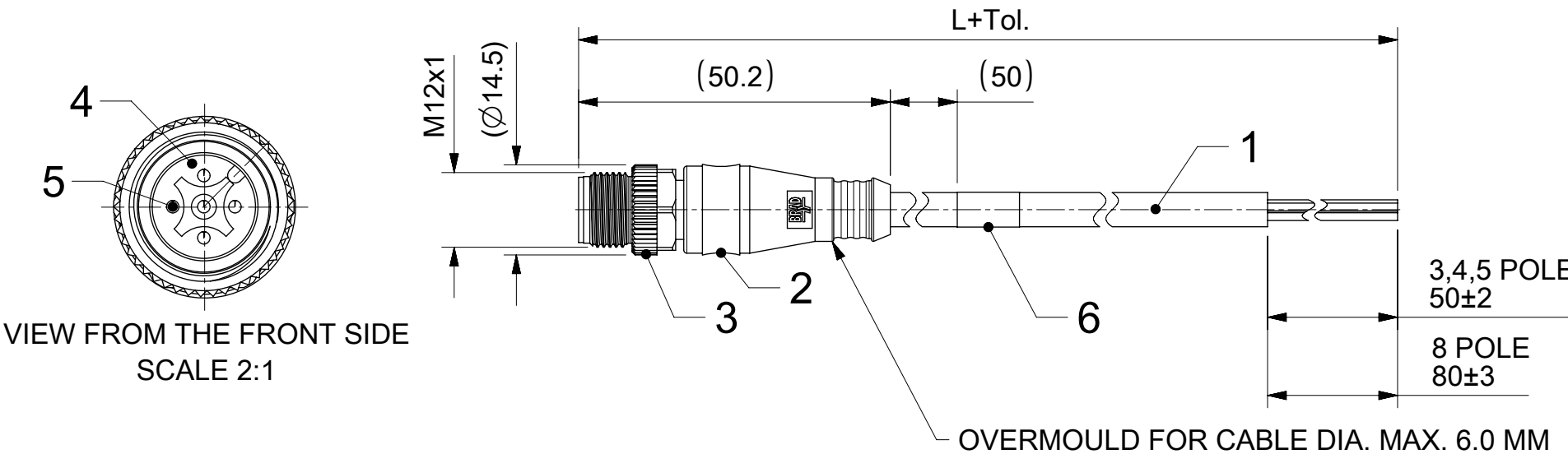
D

C

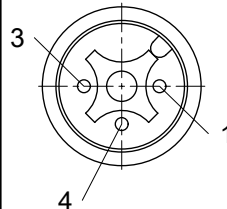
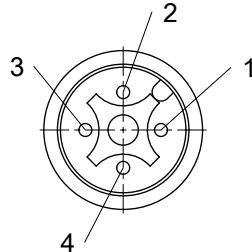
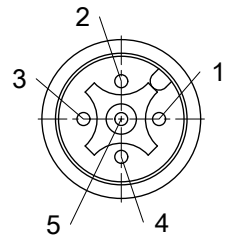
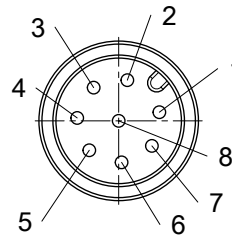
B

A

NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
TEMPERATURE: SEE CABLE INFORMATION
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100
ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION



CONTACTS POSITION FRONT VIEW:

	3 CONTACTS	4 CONTACTS	5 CONTACTS	8 CONTACTS																																																
MALE																																																				
CONNECTIONS	<table><thead><tr><th>PIN</th><th>WIRE</th></tr></thead><tbody><tr><td>1</td><td>BROWN</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr></tbody></table>	PIN	WIRE	1	BROWN	3	BLUE	4	BLACK	<table><thead><tr><th>PIN</th><th>WIRE</th></tr></thead><tbody><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></tbody></table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	<table><thead><tr><th>PIN</th><th>WIRE</th></tr></thead><tbody><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></tbody></table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	5	GREY OR GREEN/YELLOW	<table><thead><tr><th>PIN</th><th>WIRE</th></tr></thead><tbody><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></tbody></table>	PIN	WIRE	1	WHITE	2	BROWN	3	GREEN	4	YELLOW	5	GREY	6	PINK	7	BLUE	8	RED
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FOR OPTION SEE - NUMERICAL CODE - ON SHEET 2

6	1	LABEL	VINYL	YELLOW
5	3/4/5	CONTACT MA	COPPER	GOLD OVER Ni-PLATED
	8	CONTACT MA	BRASS	GOLD OVER Ni-PLATED
4	1	INSERT M12 MA XP	PUR	BLACK
3	1	COUPLING NUT M12 MA	SEE SHEET 2	SEE SHEET 2
2	-	OVERMOULDING	TPU	SEE SHEET 2
1	-	CABLE	SEE SHEET 2	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SCALE	1:1	CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED INSERT TO OVERMOLD DIM. AND NOTES			
	0	mm	1:1	GENERAL TOLERANCES (UNLESS SPECIFIED)			
	0	ANGULAR TOL	± 1.0 °				
DIVISIONAL SYMBOLS	4 PLACES	±	0.05	EC NO: 789428 DRWN: FDAFERNER 2023/01/31 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02			
	3 PLACES	±	0.3				
	2 PLACES	±	0.5	INITIAL REVISION: DRWN: MDHARMANTI 2021/10/01 APPR: RSILLER 2021/10/06			
	1 PLACE	±	0.5				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES	
				A3-SIZE		120065	
				SEE SHEET 3		GENERAL MARKET	
						1 OF 3	

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

8

0

X

0

0

6

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:
006 = PLUG MALE STRARIGHT

CABLE TYPE:
SEE TABLE

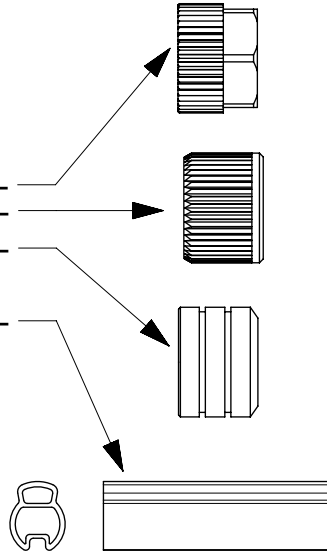
UNIT:
M = METER

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

OPTIONS
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)



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

FUNCTIONAL SYMBOLS

FA

=

0

FE

=

0

FE

=

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 ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED INSERT TO OVERMOLD DIM. AND NOTES

EC NO: 789428

DRWN: FDAFERNER 2023/01/31

CHK'D: RSILLER 2024/07/02

APPR: RSILLER 2024/07/02

INITIAL REVISION:

DRWN: MDHARMANTI 2021/10/01

APPR: RSILLER 2021/10/06

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC MA STR WSOR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659964

DOC TYPE

PSD

DOC PART

000

REVISION

B

SEE SHEET 3

GENERAL MARKET

2 OF 3

DOCUMENT STATUS

P1

RELEASE DATE

2024/07/02 09:17:38

FORMAT: m8899-16-000-03
REVISION: 1
DATE: 2020/01/11

	10	9	8	7	6	5	4	3	2	1		
PART LIST												
F	MOLEX P/N	ENGINEERING No.	LENGTH [mm]	MOLEX P/N	ENGINEERING No.	LENGTH [mm]	MOLEX P/N	ENGINEERING No.	LENGTH [mm]	MOLEX P/N	ENGINEERING No.	LENGTH [mm]
	3P CABLE B30			4P CABLE B33			8P CABLE B41			5P CABLE B55		
	1200652271	803006B30M010	1000	1200656489	804006B33M003A	300	1200659680	808006B41M003	300	1200656680	805006B55M010Y	1000
	1200652272	803006B30M020	2000	1200656521	804006B33M005A	500	1200652302	808006B41M010	1000	1200656681	805006B55M020Y	2000
	1200652273	803006B30M050	5000	1200656487	804006B33M010A	1000	1200652383	808006B41M010R	1000	1200656682	805006B55M030Y	3000
	1200652274	803006B30M100	10000	1200659451	804006B33M020	2000	1200659453	808006B41M020	2000	1200659945	805006B55M050Y	5000
	4P CABLE B30			1200659596	804006B33M020A	2000	1200652384	808006B41M020R	2000	1200659946	805006B55M100Y	10000
	1200656066	804006B30M005	500	1200656522	804006B33M030A	3000	1200659776	808006B41M030	3000	1200659947	805006B55M150Y	15000
	1200652275	804006B30M010	1000	1200659597	804006B33M050A	5000	1200652385	808006B41M030R	3000			
	1200652378	804006B30M010R	1000	1200657152	804006B33M070A	7000	1200656003	808006B41M040	4000			
	1200652276	804006B30M020	2000	1200656488	804006B33M100A	10000	1200652386	808006B41M040R	4000			
	1200652379	804006B30M020R	2000	1200656614	804006B33M150A	15000	1200652304	808006B41M050	5000			
	1200656001	804006B30M030	3000	1200657156	804006B33M200A	20000	1200652387	808006B41M050R	5000			
	1200652380	804006B30M030R	3000	1200657154	804006B33M300A	30000	1200652305	808006B41M100	10000			
	1200659638	804006B30M030R	3000	5P CABLE B33			5P CABLE B42					
	1200656002	804006B30M040	4000	1200657186	805006B33M005A	500	1200652279	805006B42M010	1000			
	1200652381	804006B30M040R	4000	1200656673	805006B33M010A	1000	1200652280	805006B42M020	2000			
	1200652277	804006B30M050	5000	1200659452	805006B33M020	2000	1200652281	805006B42M050	5000			
	1200652382	804006B30M050R	5000	1200656674	805006B33M020A	2000	1200652282	805006B42M100	10000			
	1200656296	804006B30M080	8000	1200656675	805006B33M030A	3000	1200659546	805006B42M200	20000			
	1200652278	804006B30M100	10000	1200656676	805006B33M050A	5000	1200659547	805006B42M300	30000			
	1200659440	804006B30M150	15000	1200656677	805006B33M100A	10000	4P CABLE B55					
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			5P CABLE B36			1200657250	804006B55M200Y	20000				
			1200656552	805006B36M1007Y	10000							