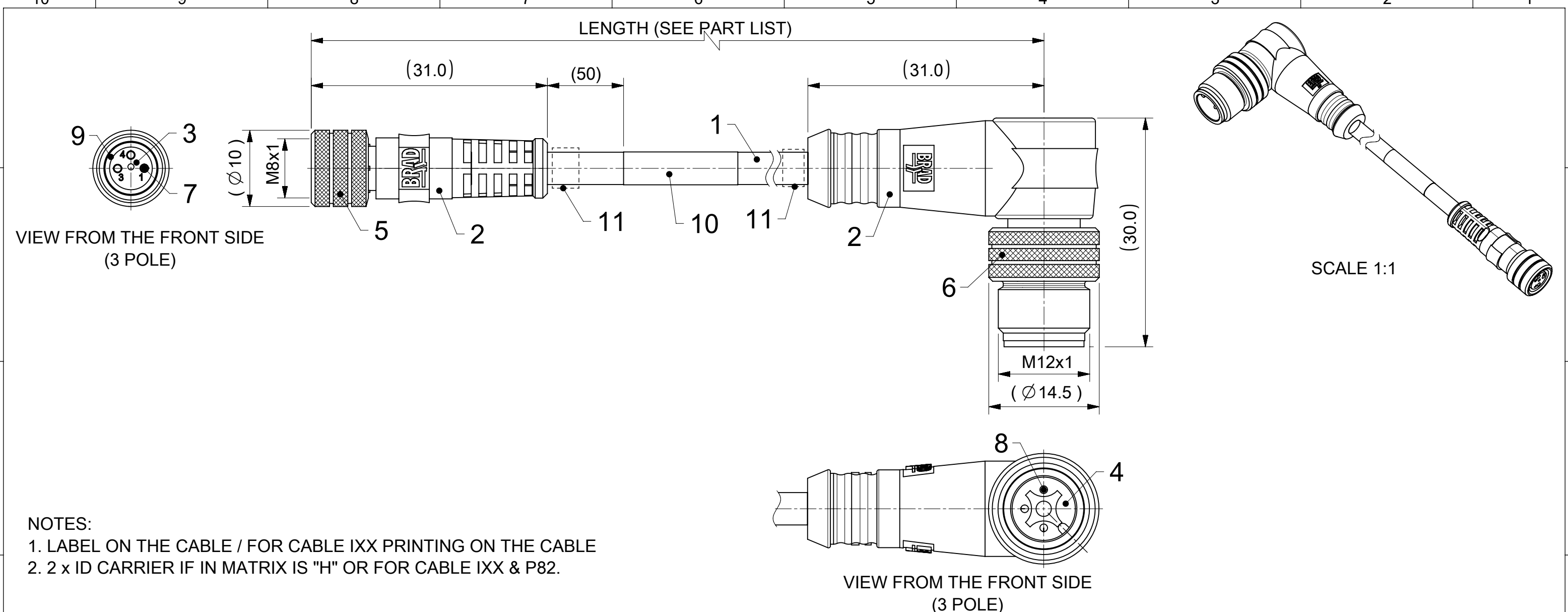




NOTES:
1. LABEL ON THE CABLE / FOR CABLE IXX PRINTING ON THE CABLE
2. 2 x ID CARRIER IF IN MATRIX IS "H" OR FOR CABLE IXX & P82.

CONTACTS POSITION FRONT VIEW:						
M8 - FEMALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
M12 - MALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	3	BLUE	2	WHITE	2	WHITE
	4	BLACK	3	BLUE	3	BLUE
			4	BLACK	4	BLACK
					5	GREY
CODING M8 ACCORDING TO IEC 61076-2-104						
CODING M12 ACCORDING TO IEC IEC 61076-2-101						

NOTES :
ELECTRICAL DATA :
RATED VOLTAGE: 3 contacts 60V AC/DC
4 & 5 contacts 30V AC/DC
CURRENT RATING: 3, 4 & 5 contacts 3A
INSULATION RESISTANCE : 10⁸Ω MIN.
MATING CYCLES : MIN. 100
ENVIRONMENTAL :
PROTECTION CLASS : IP67 IN MATED
AND LOCKED POSITION
OPERATING TEMPERATURE : -25°C TO +80°C

BOM				
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
1	-	CABLE (SEE MATRIX)	-	-
2	-	MOULDING MATERIAL	TPU	BLACK
3	1	INSERT FE XP BK	PUR	BLACK
4	1	INSERT MA XP BK	PUR	BLACK
5	1	COUPLING NUT M8 FE	BRASS	Ni-PLATED /TEFLON COAT
6	1	COUPLING NUT M12 MA		
7	3/4/5	CONTACT FE	BRONZE	GOLD OVER NICKEL PLATED
8	3/4/5	CONTACT MA		
9	1	GASKET	FKM	RED
10	1	LABEL (SEE NOTE 1)	VINYL	YELLOW
11	X	ID CARRIER (SEE MATRIX)	PVC	TRANSPARENT

FUNCTIONAL SYMBOLS

$\sqrt{A}=0$

$\sqrt{E}=0$

$\sqrt{F}=0$

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

2:1

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: SORTED PART LIST USING CABLE TYPES ON SHEET 2 AND STANDARD CABLE TOL. TABLE

EC NO: 789428

DRWN: AKABADI

CHK'D: RSILLER

APPR: RSILLER

2023/10/18

2024/07/02

2024/07/02

INITIAL REVISION:

DRWN: MDHARMANTI

2022/03/11

APPR: RSILLER

2022/03/18

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120087

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 2

molex

CSE M8 FE AC STR PUR/PVC M12 MA AC RA XP DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200878440

DOC TYPE

PSD

DOC PART

000

REVISION

B

4 8 * 0 3 2 * * * M * * * *

48 = M8x1/M12x1
DOUBLE ENDED

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

CABLE TYPE SEE TABLE

UNIT:
M = METER

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

H = 2 PCS. OF I/D CAP
MOLDING/OVERMOULDING
BLANK = BLACK
A = GREY
G = BLACK
Y = YELLOW
COUPLING NUT:
BLANK=KNU/HEX
7=TEFLON

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5 / 8	0.25mm ²	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	0.34mm ²	PUR BLACK LS0H	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	-
P02	3 / 4 / 5 / 8	0.25mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P82	3 / 4 / 5	0.34mm ²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
I02	3 / 4 / 8	0.25mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
B41	3	0.25mm ²	TPU BLACK	UL STYLE 21215	CSA RATING 80°C 600V	-40°C to +90°C, 5xO.D.	-25°C to +80°C, >7.5xO.D.	-	-

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE E02		
1200878439	483032E02M006	600
1200878440	483032E02M010	1000
1200878641	483032E02M015	1500
1200878581	483032E02M030	3000
1200878441	483032E02M050	5000
1200878442	483032E02M100	10000
1200878443	483032E02M150	15000
4P CABLE E02		
1200878489	484032E02M003	300
1200878252	484032E02M050	5000
1200878490	484032E02M006	600
1200878491	484032E02M010	1000
1200878253	484032E02M100	10000
3P CABLE I02		
1200878444	483032I02M010	1000
1200878831	483032I02M030Y	3000
1200878445	483032I02M050	5000
1200878832	483032I02M050Y	5000
1200878833	483032I02M100Y	10000

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE P02		
1200878446	483032P02M006	600
1200878447	483032P02M010	1000
1200878919	483032P02M015	1500
1200878448	483032P02M020	2000
1200878449	483032P02M030	3000
1200878450	483032P02M050	5000
4P CABLE P02		
1200878492	484032P02M020	2000

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE P82		
1200878062	483032P82M0067	600
4P CABLE B41		
1200879048	484032B41M050	5000
1200879051	484032B41M100	10000
4P CABLE H09		
1200878631	484032H09M030	3000

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

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
= 0 = 0 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: SORTED PART LIST USING CABLE TYPES ON SHEET 2 AND STANDARD CABLE TOL. TABLE				molex						
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)								CSE M8 FE AC STR PUR/PVC M12 MAAC RA XP DE						
	ANGULAR TOL ± 1.0°														
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 789428				PRODUCT CUSTOMER DRAWING						
	3 PLACES		±		DRWN: AKABADI 2023/10/18										
	2 PLACES		± 0.05		CHK'D: RSILLER 2024/07/02										
	1 PLACE		± 0.3		APPR: RSILLER 2024/07/02										
	0 PLACES		± 0.5		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: MDHARMANTI 2022/03/11				1200878440		PSD	000	B		
APPR: RSILLER 2022/03/18				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120087		SEE PART LIST		GENERAL MARKET		2 OF 2	