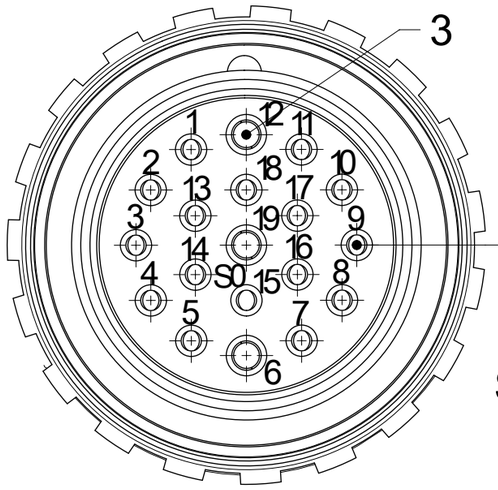
Wiring Diagram

1	Violet
2	Red
3	Gray
4	Red/Blue
5	Green
6	Blue
7	Gray/Pink
8	White/Green
9	White/Yellow
10	White/Gray
11	Black
12	Green/Yellow
13	Yellow/Brown
14	Brown/Green
15	White
16	Yellow
17	Pink
18	Gray/Brown
19	Brown

Connector Pin Assignment for M23 19 Pole Front Side View

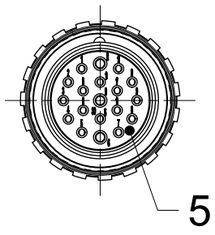


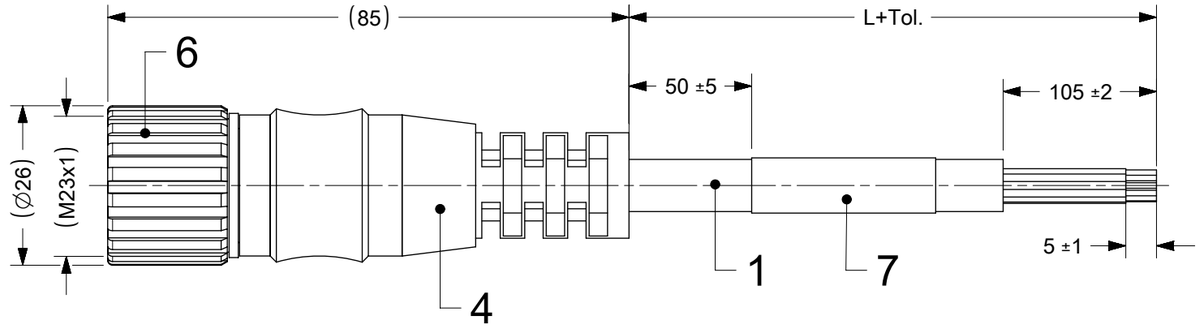
Scale 3:1

ENGINEERING NO. - MATRIX

K	0	3	0	0	0	B	*	*	M	*	*	*

- K0 = M23x1 SINGLE ENDED
- POLES: 3 = 19 POLES
- HEADER: 000 = FEMALE STRAIGHT
- CABLE TYPE: B80 = 3x19AWG+16x22AWG TPU BLACK WSOR; B20 = 3x19AWG+16x22AWG PUR BLACK
- UNIT: M = METER
- LENGTH: EXAMPLE: 010 = 1 m, 050 = 5 m, 100 = 10 m



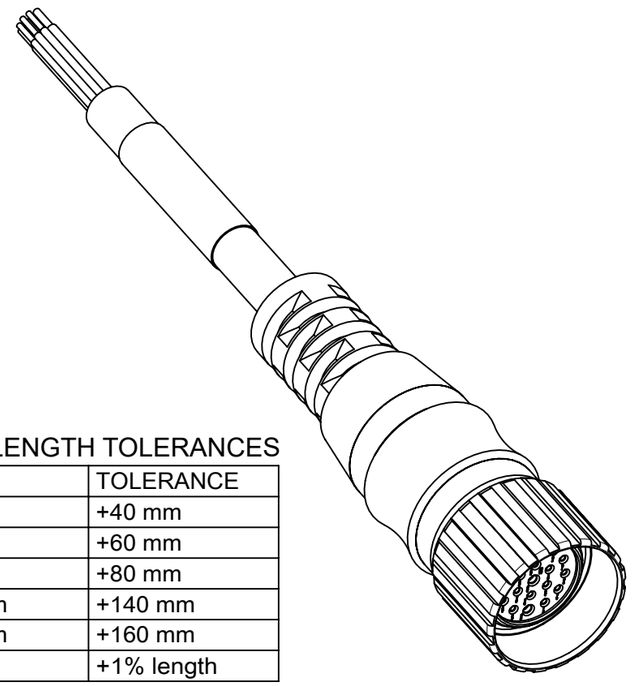


CABLE SPECIFICATION FOR B80:

CONDUCTOR A:
MATERIAL: BARE COPPER
SECTION: 0.75mm²/19AWG
DIAMETER: 1.75±0.10mm
CONDUCTOR B:
MATERIAL: BARE COPPER
SECTION: 0.34mm²/22AWG
DIAMETER: 1.30±0.10mm
JACKET:
COMPOUND: TPU
COLOR: BLACK
DIAMETER: 10.20±0.30mm

CABLE SPECIFICATION FOR B20:

CONDUCTOR A:
MATERIAL: BARE COPPER
SECTION: 0.75mm²/19AWG
DIAMETER: 1.80±0.10mm
CONDUCTOR B:
MATERIAL: BARE COPPER
SECTION: 0.34mm²/22AWG
DIAMETER: 1.40±0.10mm
JACKET:
COMPOUND: PUR
COLOR: BLACK
DIAMETER: 10.60±0.20mm



CONNECTOR SPECIFICATION

VOLTAGE RATING	IEC 63V AC/DC // UL 30V AC/DC
AMPERAGE RATING	IEC 6A // UL 4A
PROTECTION CLASS	IP67
OPERATING TEMPERATURE	-25°C to 90°C

UL FILE: E152210

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
7	1	Standard Wrap Label	Vinyl	Yellow
6	1	M23 Female coupling nut	Brass	Nickel Plated
5	1	M23 Female insert 19P	TPU	Black
4	1	Overmold	TPU	Black
3	3	Contacts	Brass	Nickel Plated
2	16	Contacts	Bronze	Nickel Plated
1	L	CABLE: SEE MATRIX	-	Black

TABLE

Molex P/N	Engineering P/N	Length L[mm]
1200945015	K03000B20M100	10000
1200945016	K03000B20M200	20000
1200945024	K03000B20M050	5000
1200948154	K03000B80M010	1000

DOCUMENT STATUS	P1	RELEASE DATE	2024/02/09	10:57:13

CABLE LENGTH TOLERANCES

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

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

FUNCTIONAL SYMBOLS: FA = 0; FC = 0; FP = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	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: UPDATE ELECTRICAL RATINGS

EC NO: 776732
DRWN: MBLOESER 2024/02/09
CHK'D: RSILLER 2024/02/09
APPR: RSILLER 2024/02/09

INITIAL REVISION:
DRWN: RSCHIEBER 2020/11/23
APPR: RSILLER 2020/11/25

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120094

molex

CSE M23 19P FE ST XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200945016	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 1

FORMAT: molex © size A3
REVISION: J
DATE: 2020/01/14