

FEMALE END VIEW

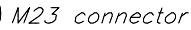
The diagram shows a top-down view of the female end of an M23 connector. It features a circular arrangement of 19 pins. The pins are numbered 1 through 19 as follows:

- Pins 1-6 form the outer ring, starting from the bottom and moving clockwise.
- Pins 7-18 form an inner ring, also starting from the bottom and moving clockwise.
- Pin 19 is located at the very center of the connector.

Each pin is represented by a small circle with a dot in the center, indicating its position relative to the others.

PAIR {	1 = WHITE/BLACK
	2 = BLACK/WHITE
PAIR {	3 = WHITE/GREEN
	4 = GREEN/WHITE
PAIR {	5 = WHITE/RED
	6 = DRAIN
{	7 = RED/WHITE
	8 = WHITE/ORANGE
PAIR {	9 = ORANGE/WHITE
	10 = WHITE/BLUE
PAIR {	11 = BLUE/WHITE
	12 = GREEN/YELLOW
PAIR {	13 = WHITE/BROWN
	14 = BROWN/WHITE
PAIR {	15 = WHITE/YELLOW
	16 = YELLOW/WHITE
PAIR {	17 = WHITE/VIOLET
	18 = VIOLET/WHITE
{	19 = N/C

M23 connector



PANEL CUTOUT (TYPICAL)

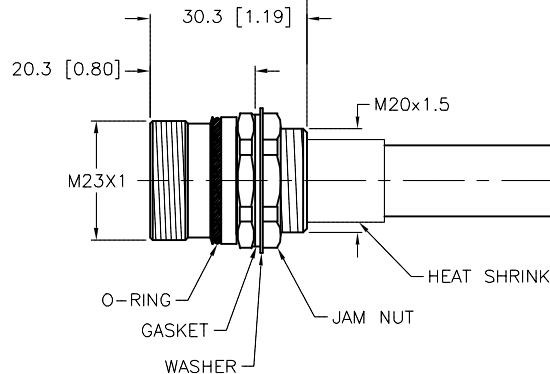
REF. KEY TO FLAT
8.7 [0.34] REF.

9.0 [0.35]

$\phi 20.0 \pm 0.1$
[$\phi 0.79 \pm 0.004$]

BASIC THRU

NON-ROTATIONAL THRU



NOTES:

C	UPDATE ENDVIEW	ER	10/30/19	75385
REV	DESCRIPTION	BY	DATE	ECO NO.

WIRING DIAGRAM

Pin	Wire Color / Function
1	WH/BK
2	BK/WH
3	WH/GN
4	GN/WH
5	WH/RD
6	RD/WH
7	WH/OG
8	OG/WH
9	WH/BU
10	BU/WH
11	WH/BN
12	BN/WH
	DRAIN 1
	DRAIN 2
	DRAIN 3
	DRAIN 4
	DRAIN 5
	DRAIN 6
	DRAIN 7
	DRAIN 8
	DRAIN 9

SPECIFICATIONS	
CONTACT CARRIER MATERIAL	NYLON or PBT
CONTACT MATERIAL/PLATING	BRASS/GOLD
RECEPTACLE MATERIAL/PLATING	BRASS/NICKEL
RATED CURRENT [A]	9.0 A (PIN 12), 2.0 A (ALL OTHERS)
RATED VOLTAGE [V]	150 V
OUTER JACKET MATERIAL/COLOR	EX60/PLUM
CONDUCTOR INSULATION MATERIAL	XLPE
NUMBER OF CONDUCTORS [AWG]	16x22 AWG, 1x18 AWG GROUND
DRAIN/SHIELD	9x22 AWG/ALUM.-POLYESTER FOIL (PAIRS & OVERALL)
CONDUCTOR ARRANGEMENT	8 SHIELDED TWISTED PAIRS W/DRAIN, 1 GND, 1 DRAIN
TEMPERATURE RANGE	-60°C to +105°C (-76°F to +221°F)
PROTECTION CLASS	IEC IP67
CABLE RATINGS	UL: ITC-ER/PLTC-ER, DIRECT BURIAL, 105C, -60C COLD BEND CSA: CIC, 90C, 300V
MAXIMUM PANEL THICKNESS	3.5 [0.138]

The diagram illustrates the experimental setup for studying the effect of the number of turns on the length of the twisted wire. It shows a bundle of wires being twisted over a length of 100.0 [3.94] units. A detail view shows a single wire with a twist pitch of 10.0 [0.39] units.

RELATED DOCUMENTS 1. 2. 3. 4.	3RD ANGLE PROJECTION			THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.				3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax www.turck.us	
MATERIAL	ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY CONTACT TURCK FOR MORE INFORMATION	DRFT	RDS	DATE	02/06/15	DESCRIPTION P-CKFL 19-1230XL-*			
SEE SPECIFICATIONS		APVD	J.S.	SCALE	1=1.5				
FINISH		UNIT OF MEASUREMENT MILLIMETER [INCH] DO NOT SCALE THIS DRAWING	IDENTIFICATION NO.				REV		
SEE SPECIFICATIONS	FILE: 777034672				SHEET 1 OF 1				