

ITEM NO.	PART NUMBER	DESCRIPTION	COMPONENT NOTES	QTY.
1	50-01029	Connector, M12 D-code plug, 4 pin, 12xL22 mm, molding style, solder cup, gold plated, IP67, shielded		1
2	50-01028	Connector, M12 D-code socket, 4 pin, 12xL22 mm, molding style, solder cup, gold plated, IP67, shielded		1
3	30-03676	Wire, 4C, 2PR BC, 24AWG, CAT5e SF/UTP, UL20387, 300V, 105C, 60C oil, UV, 6 mm, shielded, VW-1, PVC		1
4	24-00349	Overmold, M12 plug and jack, 180°	PVC, black	2

Alignment key

(14.5)

15.2 ±0.5

28 ±1

14 ±0.5

28 ±1

14 ±0.5

1

4

3

4

2

500 +50 0

Ø13.5 ±0.5

(Ø6)

Alignment key

14.5

Notes:

Voltage: 250 V

Current: 4 A

Temperature: -40 ~ 105 °C

Signal: Ethernet CAT5e 1 Gbps

Wire:

Oil resistant up to 60 °C

Water resistant up to 75 °C

UV resistant

IP67 waterproof rating when M12 connector mated with corresponding (IP67) M12 connector

Functionally equivalent components may be substituted

Front View

Not to Scale

Front View

Not to Scale

Wiring Diagram		
50-01029	wire color	50-01028
1	white/orange	1
3	orange	3
2	white/green	2
4	green	4
Shell	Shield	Shell

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	8/20/2025	Initial release	Verified:	RoHS compliant			
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent			
			Tolerances:	Description:			
			X: ± 0.5 mm	Cable, 500 mm, M12 D-code plug 4 pin 50-01029 to M12 D-code socket 50-01028, CAT5e, 24 AWG, 30-03676 wire	Size:	Part number:	
			X.X: ± 0.3 mm		A	10-06473	
			X.XX: ± 0.05 mm		Scale:	1:1	Sheet 1 of 1