

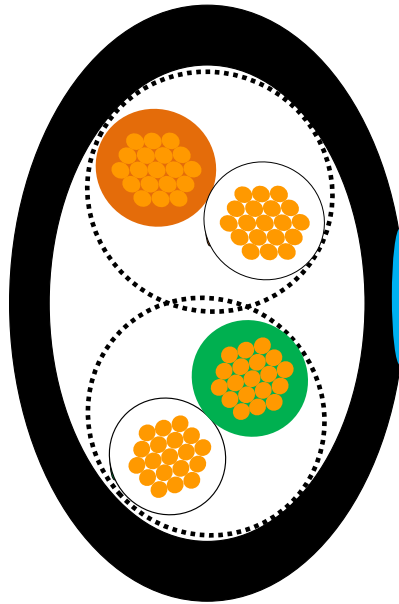
REV.	DESCRIPTION	DATE
2	Correct and remove filler information in text of drawing	4/1/2015
3	add strip to jacket and tolerances to jacket diameters etc.	4/6/2015
4	Edited general Data	7/29/2015
5	Add voltage rating	4/29/2019

General Properties

2 Pair Ruggedized Ethernet Cable

Application

Vehicles



Color Code

Pair TX +	Wht/ Org
Pair TX -	Orange
Pair RX +	Wht/ Dk Grn
Pair RX -	Dk Green
Jacket	Blk/Lt Bu

Physical Data

		Dimensions (Nom.)	
		in	mm
Conductor:	0.75mm ² 19/.22 Bare Copper	0.043	1.09
Insulation:	EXRAD 150UT wall thickness: 18 mil	0.079	2.01
Twist:	2 X 0.75mm ² Leads pair TX = 19mm +/- 1mm Pair RX 23mm +/- 1mm	0.158	4.01
Cable:	Pairs 1 and 2	0.300	7.63
Jacket:	EXRAD 125 23 mil .020" min.	0.346	8.79
Print:	Champlain Cable 14789 XXXXX Diameter Range .336-.356	8.53-9.04	
	XXXXX = Traveler Number Diameter is measured along the major axis		

General Data

Voltage:	60V
Temperature Range:	-40 °C to 125 °C
Meets Requirements of:	Category 5E, except as noted below
Conductor Resistance:	2.7 Ω/100 meter (nom)
Attenuation:	13.6db/100m max. @ 31.25 MHz, 28.75db/100m max. @ 100Mhz
Mutual Capacitance:	59.0 pF/m (max) [5.9nF/100m]
Impedance:	100 +/- 15 Ohms
Velocity of propagation:	58% min. @ 1Mhz, 60% min @ 10Mhz, 61% min @ 100Mhz
Static Bend Radius (min)	1.7 Inches 44 mm
Weight:	44 lbs./1000 Ft (nom)
Note:	Stripes are to be extruded stripes only



TITLE
2 pair 0.75mm² Ethernet Cable

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS AND TOLERANCES
ARE IN INCHES

DRN.	Rick Antic	DATE	7/21/2014
CKD.	Tom Roy	DATE	7/29/2015
SIZE	PART NUMBER	DOCUMENT NUMBER	
A	15-08072-xxx	14789	

DO NOT SCALE THIS DRAWING

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