



### Coast™ Custom Cable

Tel: (800) 514-8473 E-mail: coast@alphawire.com  
Distributor Name: **IWEC**  
End Use Customer: **Velodyne Lidar**  
IP Owner: **Velodyne Lidar**

Part Number: **17-1988 BK199**

Revision: **None**

Customer P/N: **N/A**

Customer Revision: **N/A**

## Cable Specification

### 8/C Composite (2 PR) Shielded Cable

#### CONDUCTORS

**Wire Size & Type:** 28 AWG (19/40) Tinned Copper  
**Nom. Wire Diameter:** 0.016  
**Insulation Type:** FEP  
**UL:** AWM Style 10527 105°C 300Vac  
**Nom. Ins Thickness:** 0.007 5 mils min. avg., 4 mils min. at any point  
**Conductor Diameter:** **0.030**  
**Tolerance (+/-):** 0.002  
**Colors:** White, Yellow, Blue, Lt. Blue  
Orange, Lt. Orange

#### CONDUCTORS

**Wire Size & Type:** 22 AWG (19/34) Tinned Copper  
**Nom. Wire Diameter:** 0.032  
**Insulation Type:** FEP  
**UL:** AWM Style 10527 105°C 300Vac  
**Nom. Ins Thickness:** 0.008 5 mils min. avg., 4 mils min. at any point  
**Conductor Diameter:** **0.048**  
**Tolerance (+/-):** 0.002  
**Colors:** Black, Red

#### SUB-ASSEMBLY 28 AWG Twisted Pairs

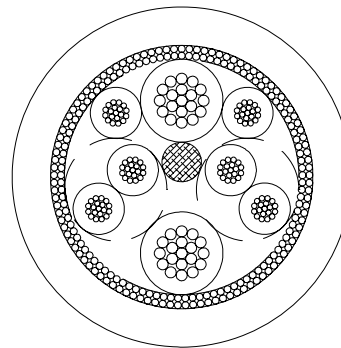
**Colors:** #1 Blue Paired With Lt. Blue  
#2 Orange Paired With Lt. Orange

#### ASSEMBLY

**Core Cabling:** 2/C 22 AWG + 2/C 28 AWG + (2) 28 AWG Pairs Cabled  
**Strength Member:** Kevlar (Center)  
**Filler:** Fiberglass  
**Binder:** Clear Mylar (100% Coverage, 25% Min. Overlap)

#### SHIELD

**Type:** Braid  
**Material:** Tinned Copper  
**Required Coverage:** 92% minimum  
**AWG:** #38



#### JACKET

**Material Type:** Black PVC 20 mils min. avg., 16 mils min. at any point  
**Separator:** None  
**Cable Diameter:** **0.197 Absolute Max.**  
**Print:** Ink Color WHITE Inkjet  
**Legend:** E163869-CA RU AWM STYLE 20167 105C 300V RoHS

#### TESTS

**Test 1:** Continuity  
**Test 2:** Shorts  
**Test 3:** Physical/Dimensional

#### MISCELLANEOUS

**Voltage:** 300V<sub>RMS</sub>  
**Temperature:** 105°C  
**Put Ups:** Bulk, May Contain Multiple Lengths Per Reel  
**Reel:** Wood or Plastic  
**Colors:** Munsell® Component Limits of Deviation

#### ENVIRONMENTAL COMPLIANCE

**RoHS:** European Directive 2011/65/EU(ROHS2)

#### APPROVALS

**Final Product:** UL AWM 20167 105°C 300Vac

Dimensions in inches unless otherwise specified

.XXX = +/- .005    .XX = +/- .02    .X = +/- .1

Prepared By: Mike Cother

Date: 8/29/2017

**Customer Approval:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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