

DEFENSE-Link®

Supporting Ruggedized Connectivity

Copper Data Series

PRODUCT FEATURES

Data Transfer Rates:

- Up to 10 gigabits

Physical:

- Superior EMI / RFI Protection
- Enhanced Flex-Life
- Light Weight & Flexible
- Excellent Scrape, Abrasion, and Dynamic Cut-through

Environmental:

- REACH & RoHS Compliant
- MIL-STD-810 H
- FAR 25.853
- Airbus ABD0031
- Boeing Smoke & Toxicity

Additional:

- Supports SWaP-C & CSISR Initiatives
- Reduces Assembly Time
- Fits Standard Connectors

DESIGN BENEFITS

Conductor:

Bare or Plated Copper and Alloy (See Table III)

Insulation:

Aerospace-Grade Fluoropolymer

HDPE for LSZH only

Drain Wire:

Matched Appropriately When Required

Binder:

Low Density Fluoropolymer Tape or Equivalent

Shield:

Material 1: Foil Tape

Material 2: Braid 85% min (See Table IV)

Jacket:

Pressure or Tube Extrusion Available

Operating Temperature:

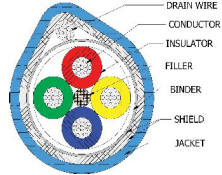
Fluoropolymer: -65°C to 200°C

Cablethane®: -55°C to +90°C

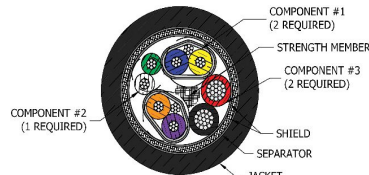
Cableprene®: -55°C to +90°C

Modified XLPO: -20°C to +80°C

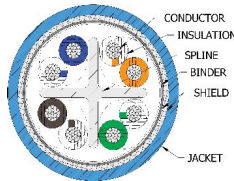
Proportions altered to illustrate design detail



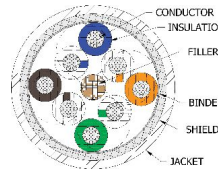
Data Quad



USB 3.1



Cat6a



Cat5e

DEFENSE-LINK: Part Number Builder	DL -	USB3.1A	-	28	E	.	24	E	TC	T	2	0
COMMUNICATION TYPE (Table I)												
DATA AWG SIZE												
DATA STRAND COUNT (Table II)												
POWER AWG SIZE [USB ONLY]*		Leave Blank for Non-USB Constructions										
POWER STRAND COUNT (Table II) [USB ONLY]*		Leave Blank for Non-USB Constructions										
CONDUCTOR MATERIAL (Table III)												
BRAID SHIELD MATERIAL (Table IV)												
JACKET MATERIAL (Table V)												
JACKET COLOR (Table VI)												

CODE	TYPE
Q	CAT 5e (DataQuad)
CAT5e	CAT 5e (UTP)
CAT6	CAT 6 (UTP)
CAT6A	CAT 6A (UTP)
CAT6AS	CAT 6A (STP)
USB2G	USB 2.0 On-The-Go (OTG)
USB2	USB 2.0
USB3.1A	USB 3.1A

NOTES:

1. Cable will be marked with "DEFENSE-LINK®, Part Number, CAGE Code"
2. Detailed drawing will be offered to confirm design selection

CODE	COUNT
B	7-Strand
E	19-Strand

CODE	MATERIAL
TC	Tin Plated Copper
SA	Silver Plated Alloy
SC	Silver Plated Copper
BC	Bare Copper

CODE	MATERIAL
T	Tin Plated Copper
M	Silver Plated Alloy
S	Silver Plated Copper
N	Nickel Plated Copper

CODE	MATERIAL
1	Modified FEP
2	Modified ETFE
3	Cablethane® (Polyurethane)
4	Cableprene® (Neoprene)
5	Cablethane® LSZH**
6	Modified LSZH XLPO**

**LSZH and XLPO Jackets require HDPE Insulation

CODE	COLOR
0	Black
6	Blue
9	White

Other colors available upon request

