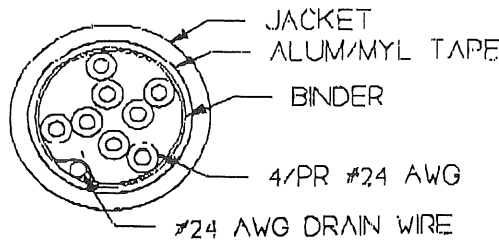


ShipLAN "COTS"



1.0 DESCRIPTION

4 PAIR 24 AWG SCREENED TWISTED PAIR (ScTP) CABLE, FOR HIGH SPEED DATA TRANSMISSION UP TO 100 MHz. THIS CABLE IS HALOGEN FREE AND ETL VERIFIED TO CATEGORY 5e ELECTRICALS.


2.0 CONSTRUCTION:

- 2.1 CONDUCTOR: 24 AWG SOLID BARE COPPER; OD: .020" NOM
- 2.2 INSULATION: HD-POLYETHYLENE; OD: .040" NOM
- 2.3 COLOR CODE: P1. WHITE/BLUE, BLUE  
P2. WHITE/ORANGE, ORANGE  
P3. WHITE/GREEN, GREEN  
P4. WHITE/BROWN, BROWN
- 2.4 PAIRS: PAIRS: TWISTED WITH LEFT HAND LAYS (EACH PAIR TWISTED WITH A DIFFERENT LAY LENGTH)
- 2.5 CABLE: 4 PAIRS CABLED TOGETHER WITH A RIGHT HAND LAY
- 2.6 BINDER: POLYESTER TAPE; 25% OVERLAP
- 2.7 DRAIN WIRE: 24 AWG (7/32) TINNED COPPER.
- 2.8 SHIELDING: ALUMINUM/POLYESTER TAPE; 25% OVERLAP (ALUM SIDE-IN).
- 2.9 JACKET: \*FLAME RETARDANT LOW SMOKE POLYOLEFIN (NON-HALOGEN)  
COLOR: BLACK; OD: .245" NOM.
- 2.10 MARKING: SURFACE PRINTED:

Draka Comteq (F) Shiplan Marine Cable 4pr24AWG Screened - ScTP NON-HALOGEN - ETL Verified to TIA/EIA-568-B.2 Cat.5e AAAAA\*\* MO/YR\*\*\* XXXXXX feet\*\*\*\*

2.11 APPROX. WEIGHT: 33.0 LBS/1000 FT.

\* Order Number \*\* Date \*\*\* Sequential Footage Marking - Every 2 ft.  
\*\*\*\* JACKET MEETS MIL-C-85045E

REV	DATE	CHANGE DETAIL	 <b>Draka Comteq USA, Inc.</b> 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-9122	
			Description:	<b>4/PR 24 AWG - ScTP CAT 5e SCREENED NON-HALOGEN CABLE</b>
C	4/22/03	Updated print legend TG	Drawn By:	T. Grzysiewicz
B	4/22/03	Added ShipLAN "COTS" to title TG	Mktg Approval:	<i>[Signature]</i> 4/22/03
A	11/13/01	Initial Release	Final Approval:	<i>[Signature]</i> 4/22/03
<b>PAGE 1 of 2</b>				

Draka Comteq, USA, reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. Draka Comteq, USA, assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.


3.0 ELECTRICAL CHARACTERISTICS

FREQ (MHz)	ATTENUATION (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		RL (dB)
	Typical	max.	Typical	min.	Typical	min.	Typical	min.	Typical	min.	Typical	min.	Typical	min.	min.
0.772	1.5	1.8	86.3	67.0	79.9	64.0	84.8	65.2	78.4	62.2	87.1	66.0	83.6	63.0	-
1	1.7	2.0	82.3	65.3	76.0	62.3	80.6	63.3	74.3	60.3	80.9	63.8	78.7	60.8	20.0
4	3.5	4.1	76.5	56.3	70.1	53.3	72.9	52.2	66.5	49.2	72.3	51.7	68.8	48.7	23.0
8	5.0	5.8	70.9	51.8	61.4	48.8	65.9	46.0	56.3	43.0	64.4	45.7	63.5	42.7	24.5
10	5.7	6.5	65.7	50.3	59.7	47.3	60.1	43.8	54.0	40.8	62.5	43.8	61.8	40.8	25.0
16	7.2	8.2	63.8	47.3	58.1	44.3	56.6	39.1	50.9	36.1	61.2	39.7	57.5	36.7	25.0
20	8.2	9.0	64.6	45.8	58.0	42.8	56.4	36.5	49.8	33.5	61.2	37.7	54.6	34.7	25.0
25	9.1	10.4	62.3	44.3	55.2	41.3	53.1	33.9	46.0	30.9	60.0	35.8	54.6	32.8	24.3
31.25	10.3	11.7	59.0	42.9	50.2	39.9	48.7	31.2	39.8	28.2	55.5	33.9	51.6	30.9	23.6
62.5	14.9	17.0	56.1	38.4	49.6	35.4	41.2	21.4	34.6	18.4	47.5	27.8	44.2	24.8	21.5
100	19.3	22.0	49.0	35.3	41.8	32.3	29.7	13.3	22.5	10.3	35.6	23.8	38.8	20.8	20.1

**DC Resistance:** 9.38 Ohms/100m (28.6 Ohms/Mft) MAX.  
**DCR Unbalanced:** 5% MAX.  
**Mutual Capacitance:** 55.8 pF/m (17 pF/ft) MAX.  
**Capacitance Unbalance:** 330 pF/100m (1 pF/ft) MAX.  
**Characteristic Impedance:** 100 Ohms +/- 15% (1-100 MHz)  
**Input Impedance:** 100 Ohms +/- 15% (1-100 MHz)  
**Prop. Delay (Skew):** 45 ns/100m MAX.  
**Velocity of Propagation:** 69% NOM  
**Temp. & Voltage Rating:** -20°C TO +75°C / 300V MAX.

4.0 APPROVALS

4.1 IEEE-383 / 1974 TRAY CABLE FLAME TEST

REVIEW	DATE	CHANGE DETAIL	 <b>Draka Comteq</b>	<b>Draka Comteq USA, Inc.</b> 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122		
			Title:	LO24P0045238X		
			Description:	4/PR 24 AWG - ScTP CAT 5e SCREENED NON-HALOGEN CABLE		
C	4/22/03	Updated print legend TG	Drawn By:	T.Grzyсьiewicz		
B	4/22/03	Added ShipLAN "COTS" to title TG	Mktg Approval:	<i>[Signature]</i>		
A	11/13/01	Initial Release	Final Approval:	<i>[Signature]</i>	4/22/03	PAGE 2 of 2

Draka Comteq, USA, reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. Draka Comteq, USA, assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.