

LMCAB LAN Cables

Ruggedized high reliability Ethernet Cord Sets

GENERAL CONSTRUCTION

A 4 pair, SFTP round patch cable, designed to fill the ISO / IEC 11801 Category 5e/6 requirements (cat 5e on 76 m). The cable contains 4 twisted pairs, cabled, double shielded with kevlar reinforcement strands, jacketed in black UV resistant Polyurethane HFFR. Designed for fixed or portable applications in harsh environments.

JACKET COMPOUND SPECIFICATION

- Halogen free flame retardant polyether-based polyurethane
- Glossy finish
- Excellent hydrolysis resistance
- UV resistant
- High microbial resistance
- High flexibility



RJF 6M G



RJF TV 6M G

RJF6/ RJF TV6 ETHERNET CONNECTION SYSTEM FOR HARSH ENVIRONMENT

RJFTV Cat6 allows you to use an Ethernet Class 5E / Cat. 6 connection for 10Base-T, 100Base-TX or 1000Base-T up to 250 MHz networks in harsh environments. With the patented RJ Stop system you can use a standard RJ45 cord set in a metallic plug which will protect it from shocks, dust and fluids. No hazardous on-field cabling and grounding!

Main characteristics

- Sealed against fluids and dusts (IP68)
- Shock, vibration and traction resistant
- No cabling operation in field and no tools required
- Mechanical coding / Polarization (4 positions)
- Improved EMI protection
- Tri Start Thread coupling mechanism (D38999 series III type) with anti-decoupling device - Shell size 19
- Robust aluminium shells, olive drab cadmium plating
- RJ45 cord set retention in the plug: 100 N in the axis
- Mating cycles: 500 min

Environmental protection

- Sealing: IP68
- Salt spray: 48 h with aluminium shell - Nickel, & black zinc cobalt plating
> 500 h with aluminium shell - Olive drab cadmium plating
- Fire retardant / Low smoke: UL94 V0 and NF F 16 101 & 16 102
- Vibrations: 10 - 500 Hz, 10 g, 3 axes: no discontinuity > 10 ns
- Compounded versions tested per NAS 1599 (5-3000 Hz, 20 g, 12 h)
- Shocks: IK06 weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 43°C, 98% humidity

APPLICATIONS

- Battlefield communication
- Industrial Process Control
- Robotics
- Motion Control
- Railways

ORDERING CODE

LANCAB - **YXX(B¹)** - **LL** - **(E,N)**

Y: cable class: Cat 5e/6

- Cat.5e, 100 MHz, color black or turquoise

6 Cat.6, 250 MHz, color black

X: **R** RJ45 plug (RJ modular Jack 8P Cat.6)

B RJF(6)MG plug (bayonet - MIL-DTL-26482)

D RJFTV(6)MG plug (thread - MIL-DTL-D38999)

LL: length (m)

E: 360° EMI backshells: EMI backshells provide a solution with 360° shielding

N: Connectors RJF and RJFTV without dust cap²

Note: 1) Bulkhead connector, please specify the type
2) Connectors RJF and RJF TV are delivered with dust cap as standard

Example:

LANCAB-BR-08

Cable Cat5e 8 m, conn. side A: MIL-DTL-26482 (bayonet), Plug, Metal backshell, side B: RJ-45 plug

LANCAB-6DR-08

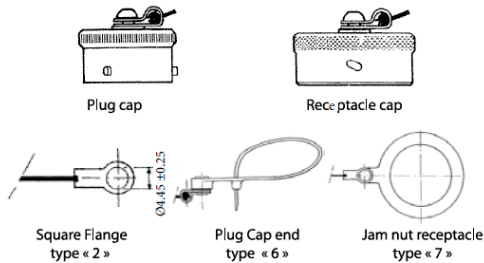
Cable Cat6 8 m, conn. side A: MIL-DTL-D38999 (thread), Plug, Metal backshell, side B: RJ-45 plug



LANCAB-6BR-08
(alias LMSW08B-LAN-08)

Dust cap – bayonet RJFC connectors:

RJFC	X	X
		B black coating - <i>ROHS compliant</i> N aluminium shell - nickel plating - <i>ROHS compliant</i> G aluminium shell - olive drab cadmium plating ZN aluminium shell - black zinc nickel plating - <i>ROHS compliant</i>
	6	plug
	2	square flange receptacle
	7	jam nut receptacle

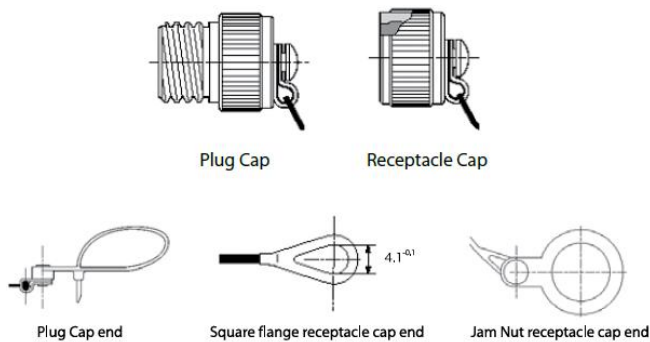


Example:

- RJFC6G** dust cap for plug connector, aluminium shell, olive drab
RJFC2G dust cap for square flange receptacle, aluminium shell, olive drab

Dust cap – thread RJFTV connectors:

RJFTVC	X	X
		N aluminium shell - nickel plating - <i>ROHS compliant</i> G aluminium shell - olive drab cadmium plating ZN aluminium shell - black zinc nickel plating - <i>ROHS compliant</i>
	6	plug
	2	square flange receptacle
	7	jam nut receptacle



Example:

- RJFTVC6G** dust cap for plug connector, aluminium shell, olive drab
RJFTVC2G dust cap for square flange receptacle, aluminium shell, olive drab