



IMO NO.	9554183
SHIP NAME	MV PANOPPI

**FOR WORKING**

TOTAL (04) SHEETS WITH A COVER

CAUTION

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OWNER  LARUS S.A		DESIGNED BY  		
APPROVED BY  J. M. Lee	TYPE  88,000 DWT CLASS BULK CARRIER	TITLE  <b>ELECTRIC CABLE (POS)</b>		
CHECKED BY  _____  CHECKED BY  _____  DRAWN BY  B. J. Km				
DEP'T  RETROFIT DESIGN TEAM	DATE  2023.01.10	SCALE  NONE	CLASS  NK	DWG. NO.  POS-EB-101
				REV. NO.  1



## PLAN HISTORY

IMO NO. 9554183

DWG. NO. POS-EB-101

A

DATE	REV.NO	DESCRIPTION	BY	DRAWN	CHKD	APPROD
2022.11.30	0	-Issued for purchasing				
2023.01.10	1	- Revised by design development.				

**TECHNICAL SPECIFICATION FOR  
ELECTRIC CABLE**

POS NO.

POS-EB-101

## 1. General

### 1.1 Design Condition

- 1) 88,000 DWT CLASS BULK CARRIER
- 2) Class : NK

## 2. Specification

ALL ELECTRIC CABLES SHALL BE IEC MARINE CABLE (IEC 60092 SERIES) AND IEC-60332-1 BY CLASSIFICATION SOCIETY, EXCEPT SPECIAL CABLE.

EXPLANATION OF SYMBOL		(F) T P Y C Y - 10 X 2
①	THE GRADE OF THE CABLE IN GENERAL.	⑨

①	THE GRADE OF THE CABLE IN GENERAL.	⑤	THE PROTECTIVE AMOUR.
	(1) NO MARK : NORMAL CABLE (2) (F) : FIRE RESISTANT (IEC 60331) (3) (R) : COLD RESISTANT CABLE		C : STEEL WIRE BRAID CB : COPPER WIRE BRAID
	THE NUMBER OF THE CABLE CONDUCTOR..		THE PROTECTIVE COVERING.
②	S : SINGLE CONDUCTOR D : DOUBLE CONDUCTOR T : TRIPLE CONDUCTOR M : MULTI CONDUCTOR TT : TELEPHONE AND INSTRUMENTATION	⑥	Y : POLYVINYL CHLORIDE (PVC)
	THE KIND OF INSULATION MATERIAL.		IN ADDITION, SHIELDED CABLE IS INDICATED AS FOLLOW.
	P : ETHYLENEPROPYLENE (EP) RUBBER SR : SILICON RUBBER		(S) : COMMON SCREEN -S : INDIVIDUAL CORE OR PAIR SCREEN
③	THE INNER SHEATH.	⑧	10 : NOMINAL CROSS SECTIONAL AREA OF THE CONDUCTOR IN MM METER SQUARE. EXCEPT MULTI CORE CABLE.
	Y : POLYVINYL CHLORIDE (PVC) N : POLY CHLORIPRENE (PCP) L : LEAD		2 : PARALLEL NUMBER OF CABLES.
			RG STANDS FOR THE COAXIAL CABLE FOR RF APPLICATION.

### 2-1. Technical note

#### 1) Screened(Shield) cable

Conductor, insulating material and sheath material are to be the same as those of general cable.  
All conductors of this cable to be screened totally with metal tape (Al/PS).

#### 2) Fire resisting cable

To be approved by regulatory body and classification society and to be complied with IEC pub. 60331 and 60332-3(category "A").

## 3. Rated Voltage of cable

CABLE TYPE	NOMAL SECTION AREA	RETED VOLTAGE
TT TYPE	0.75 mm <sup>2</sup>	250V
M TYPE	1.0 mm <sup>2</sup>	
ALL OTHER CABLES THAN ABOVE & SPCL CABLE		0.6/1KV

TECHNICAL SPECIFICATION FOR ELECTRIC CABLE				PAGE 2 / 2
NO	CABLE TYPE	LENGTH	REMARK	
1	CAT7	STP-CAT7	250	R1: MODIFIED
2	D2	0.6/1KV DPYC-2.5	370	
3	DY1	0.6/1KV DPYCY-1.5	650	
4	DY10	0.6/1KV DPYCY-10	80	
5	DY2	0.6/1KV DPYCY-2.5	830	
6	DY4	0.6/1KV DPYCY-4	80	
7	FDY1	0.6/1KV FR-DPYCY-1.5	130	
8	M12	250V 250V MPYC-12	120	
9	M2	250V 250V MPYC-2	100	
10	MY12	250V MPYCY-12	340	
11	MY19	250V MPYCY-19	80	
12	MY2	250V MPYCY-2	100	
13	MY4	250V MPYCY-4	770	
14	MY44	250V MPYCY-44	80	
15	T6	0.6/1KV TPYC-6	40	
16	T70	0.6/1KV TPYC-70	160	
17	TS35	0.6/1KV TPYCS-35(VFD)	210	VFD CABLE
18	TTYS1	250V TTYCYS-1	770	
19	TTYS1T	250V TTYCYS-1T	180	
20	TTYS2	250V TTYCYS-2	230	R1: MODIFIED
21	TTYS4	250V TTYCYS-4	80	
22	TTYS7	250V TTYCYS-7	80	
23	TY2	0.6/1KV TPYCY-2	120	
24	TY4	0.6/1KV TPYCY-4	210	
25	Y/G6	Y/G 1X6	10	
	TOTAL		6,070	

● OTHERS

- 1) All cable shall be applied to Flame retardant.
- 2) Scope of supply shall be shown on quotation & approval drawing.
- 3) Outline and weight of each part shall be shown on quotation & approval drawing, and the weight shall be as light as possible.
- 4) Class certificate shall be fully complied in connection with regulations for the construction.