

**FOR WORKING**

TOTAL (04) SHEETS WITH A COVER

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OWNER

LARUS S.A

DESIGNED BY



APPROVED BY

J. M. Lee

TYPE

88,000 DWT CLASS BULK CARRIER

CHECKED BY

TITLE

CHECKED BY

DRAWN BY

B. J. Km

**ELECTRIC CABLE (POS)**

DEPT

RETROFIT DESIGN TEAM

DATE

2023.01.10

SCALE

NONE

CLASS

NK

DWG. NO.

POS-EB-101

REV. NO.

1



# **TECHNICAL SPECIFICATION FOR ELECTRIC CABLE**

POS NO.

POS-EB-101

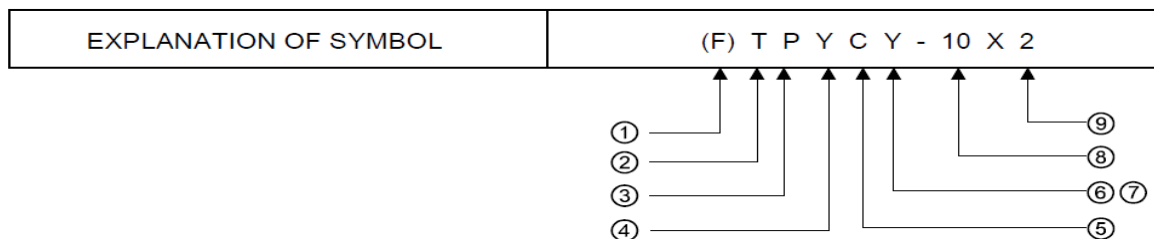
## **1. General**

### **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.



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
②	THE NUMBER OF THE CABLE CONDUCTOR..	⑥	THE PROTECTIVE COVERING.
	S : SINGLE CONDUCTOR D : DOUBLE CONDUCTOR T : TRIPLE CONDUCTOR M : MULTI CONDUCTOR TT : TELEPHONE AND INSTRUMENTATION		Y : POLYVINYL CHLORIDE (PVC)
③	THE KIND OF INSULATION MATERIAL.	⑦	IN ADDITION, SHIELDED CABLE IS INDICATED AS FOLLOW. (S) : COMMON SCREEN -S : INDIVIDUAL CORE OR PAIR SCREEN
	P : ETHYLENEPROPYLENE (EP) RUBBER SR : SILICON RUBBER		
④	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		
		⑨	2 : PARALLEL NUMBER OF CABLES.
		⑩	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 YPE	0.75 mm <sup>2</sup>	250V
M TYPE	1.0 mm <sup>2</sup>	
ALL OTHER CABLES THAN ABOVE & SPICAL CABLE		0.6/1KV

**4. Cable abbreviation list**

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.