

CHINA HI-SEA MARINE EQUIPMENT IMPORT&EXPORT CO.,LTD.

Foam PE insulation metal sheathed symmetrical communication cable

Foam PE insulation metal sheathed symmetrical communication cable application

PCM digital quads for a group (2.048Mb / s) digital communication systems, low-frequency Quads for audio communication, 0.6 line pairs for signal, alarm, telemetry, remote exploration and audio communication.

Foam PE insulation metal sheathed symmetrical communication cable model and spec

Model	Name
HESYFL23	Copper Core foam PE insulation aluminum sheathed steel tape armored PE outer sheathed Digital long distance symmetrical communication cable
HESYFL23	Copper Core foam PE insulation aluminum sheathed steel tape armored PVC outer sheathed Digital long distance symmetrical communication cable

(1) 14 sets of digital transmission distance symmetrical communication cables

0.9 * 4 * 4 (number) + 10 * 4 * 0.9 (low) 0.6 + 5 * 2 *

(2) 17 sets of numbers symmetrical communication cable transmission distance

0.9 * 4 * 4 (number) + 13 * 4 * 0.9 (low) + 4 * 4 * 0.6 (low) 2 * 0.6 + 1 *

Foam PE insulation metal sheathed symmetrical communication cable features

(1) Digital Quads for PCM primary group (2048Mbit / s) digital communications system

(2) low-frequency Quads for audio communication

(3) 0.6,0.7 pair for signal, alarm, telemetry and audio communication

(4) shielding factor of ≤ 0.1

(5) applies to strong electromagnetic interference occasions

Foam PE insulation metal sheathed symmetrical communication cable electrical performance

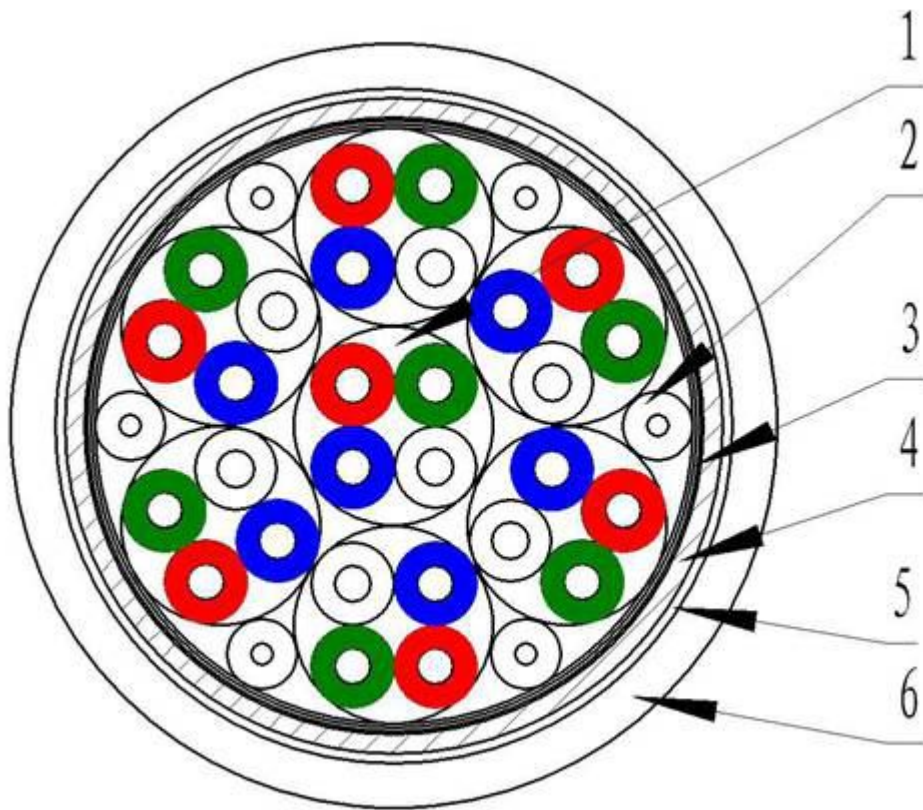
Number	Item	Data	Conversion formula
1	Digital Quads crosstalk attenuation 103KHz dB/km	≥ 70	
1-1	Near-end crosstalk attenuation between the two groups 100% 80%	≥ 75	-10lg(L/500)
1-2	The group FEXT defense degree 100% 80%	≥ 50 ≥ 55	
2	Digital Quads capacitive coupling coefficient pF/500m K2 K3(0.8~1.0KHz)	≤ 600	L/500
	Low-frequency capacitive coupling coefficient Quads pF/500m (0.8~1.0KHz)	≤ 82	$\sqrt{L/500}$

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3	K1	Average	Max	330	L/500
	K9~K12	Average	Max	< 119 236	√L/500 L/500
4	LF Quads ground capacitance unbalance pF/500m (0.8~1.0KHz)			≤233	√L/500
	e1 、 e2	Ave	Max	800	L/500
	10% of the maximum allowed number plate			1294	L/500
5	Insulation resistance core - ground MΩ.km				
	Digital and low frequency Quads			≥10000	1000/L
	0.6 0.7 0.6 solid line on the low-frequency Quads			≥5000	
6	Insulation electric strength (50Hz)			V	
	Digital Quads and Low-frequency Quads				
	Core-Core		2min	1000	
	Core-Metal sheath		2min	1800	
	0.6、 0.7pair - 0.6solid low frequency quads		2min	1000	-
	Core-Metal sheath		2s	2000	
7	Shielding factor				
	Longitudinal sheath induced electromotive force			≤0.1	-
	30~150V/km (50Hz)				

Note:100%, 80% for the cable measured group number

Foam PE insulation metal sheathed symmetrical communication cable typical construction



- 1. Conductor
- 2. Insulation
- 3. Tape
- 4. Aluminum sheath
- 5. Inner covering
- 6. Outer sheath