

Foam PE insulated metro communication cable

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This cable is Copper core foam polyethylene insulated aluminum sheath halogen-free flame retardant outer sheath Metro Route communication cable.

This product is mainly intended for Metro Main Line communication with strong moisture-proof function, strong electromagnetic interference, halogen-free flame retardant characteristics. Mainly for the transmission of audio, 150Hz and below the analog signal, this condition can also be used to transmit 2048Kbit / s digital signals.

Foam PE insulated metro communication cable features

- (1) the use of foam polyethylene insulation structure, reducing the dielectric constant of the insulation layer
- (2) a cable components used quads structure to ensure stable transmission performance
- (3) triple moisture-proof structure, with excellent moisture resistance.
- (4) the use of copper conduct electric and magnetic shield, to ensure shielding coefficient is less than 0.2, with strong electromagnetic interference; decay constant $\leq 6.7\text{dB/km}$ (150kHz).
- (5) outer sheath with non-toxic, low smoke, flame retardant characteristics, flame retardant performance to IEC332 standards, minimum transmittance $\geq 60\%$.

Foam PE insulated metro communication cable model and spec

Model	Spec	Name
WDZC-HEYFAPT23	25*4*0.7	Copper core foam polyethylene insulated aluminum sheath halogen-free flame retardant outer sheath Metro Route communication cable
	50*4*0.7	

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

Foam PE insulated metro communication cable electrical performance

Number	Item	Measure unit	Indicator
1	Conductive core downstream resistance 20 °C	Ω.km	≤48
2	Working wire and Two-wire DC resistance unbalance	%	1.5
3	Insulation resistance of each wire to other cores (with shielded metal sleeve connection)80~200V (100~500V)	MΩ.km	≥5000
4	Insulation electric strength (50Hz 2min) MΩ.km All cores together on Shield and sleeve Core to core	V	2000 1000
5	Wire pair working capacitance (0.8~10kHz) Max.	pF/km	39
6	Capacitive coupling coefficientK1 (0.8~10kHz) Average Maximum	pF/500m	≤81 ≤330
7	Capacitive coupling coefficientK9 (0.8~10kHz) Average Maximum	pF/500m	≤168 ≤472
8	Ground capacitance unbalancee1、e2 (0.8~10kHz) Average Maximum	pF/500m	≤330 ≤1294
9	Cable working frequency shielding factor (30~150V)	-	≤0.4
10	the near-end crosstalk attenuation between loop 1024kHz M-S	-	≥53dB
11	Attenuation constant20 °C 150 kHz AVG	dB/km	≤6.7
12	Shielded aluminum, copper continuity	-	Yes
13	Mixed core wire, broken	-	No mixed No broken