

DH-PFM942I-20-9

CCTV Video and Power Cable



- Compatible with all CCTV analogy DVR systems, transmitting video and power simultaneously, saving wiring and no delay.
- Work for 720p/1080p/4MP/5MP/4K, AHD/CVI/TVI/CVBS security camera system.
- High-purity oxygen-free copper conductor material, featuring good transmission performance; Flame-retardant PVC outer sheath for weatherproof indoor and outdoor use.
- Pre-made cable BNC and DC power connectors(Ø2.1mm) ready to go, can directly connect the camera and back-end equipment.
- Cable length 20 meters/bag.

System Overview

CCTV Video and Power Cable consists of a coaxial cable and two-core power cord. There is one BNC connector and one DC5.5 connector on either cable end for camera video transmission and power supply. It is convenient to install the cable in generic cabling system.

Technical Specification

Conductor

Material	Coaxial cable/Power wire: oxygen-free copper
Diameter	Coaxial cable: $7/0.127 \text{ mm} \pm 0.01 \text{ mm}$ ($7/0.005'' \pm 0.0004''$); Power wire: $7/0.203 \text{ mm} \pm 0.01 \text{ mm}$ ($7/0.008'' \pm 0.0004''$)
Wire Gauge	Coaxial cable: 28AWG; Power wire: 24AWG

Insulation

Material	Coaxial cable: PE Foam; Power wire: PVC
Thickness	Coaxial cable: $\geq 0.6 \text{ mm}$ ($0.024''$); Power wire: $\geq 0.2 \text{ mm}$ ($0.008''$)
Diameter	Coaxial cable: $1.9 \text{ mm} \pm 0.2 \text{ mm}$ ($0.075'' \pm 0.008''$); Power wire: $1.1 \text{ mm} \pm 0.2 \text{ mm}$ ($0.043'' \pm 0.008''$)
Color	Coaxial cable: 1 core (white); Power wire: 2 cores (red & black)

Inner Shield

Material	Coaxial cable: single-sided aluminum foil composite; Power wire: NA
Specification	Coaxial cable: $T \geq 0.026 \text{ mm}$ ($0.001''$), $W: 7 \text{ mm} \pm 1 \text{ mm}$ ($0.276'' \pm 0.039''$); Power wire: NA
Overlap Rate	Coaxial cable: $\geq 25\%$; Power wire: NA

Outer Shield

Material	Coaxial cable: Copper clad aluminum (28) + oxygen-free copper (4); Power wire: NA
Specification	Coaxial cable: $16 \times 2 \times 0.10 \text{ mm} \pm 0.01 \text{ mm}$ ($0.004'' \pm 0.0004''$); Power wire: NA

Lay Length	Coaxial cable: $18 \text{ mm} \pm 6 \text{ mm}$ ($0.71'' \pm 0.24''$); Power wire: NA
Shield Coverage	Coaxial cable: $\geq 45\%$; Power wire: NA

Sheath

Material	Coaxial cable/Power wire: PVC
Min. Average Thickness	Coaxial cabl/Power wire: $\geq 0.2 \text{ mm}$ ($0.008''$)
Diameter	Coaxial cable/Power wire: $2.8 \text{ mm} \pm 0.2 \text{ mm}$ ($0.11'' \pm 0.008''$)
Color	Coaxial cable/Power wire: Black

Electrical

Max. DC Resistance of a Single Conductor	Coaxial cable: $\leq 21.8\Omega@100 \text{ m}$; Power wire: $\leq 8.59\Omega@100 \text{ m}$
Min. Insulation Resistance	Coaxial cable/Power wire: $5000\text{M}\Omega\cdot\text{km}$
Dielectric Strength	Coaxial cable/Power wire: No breakdown with 2.5kV DC for 2s
Max. Supporting Power	9.0W

Transmission

Characteristic Impedance	Coaxial cable: $75\Omega \pm 10\Omega$; Power wire: NA
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Environmental

Operating Temperature	-20°C to $+60^\circ\text{C}$ (-4°F to 140°F)
Installation Temperature	0°C to $+50^\circ\text{C}$ ($+32^\circ\text{F}$ to 122°F)
Storage Temperature & Humidity	-10°C to $+40^\circ\text{C}$ ($+14^\circ\text{F}$ to $+104^\circ\text{F}$), $< 60\%$ (RH)

Flame-retardant

Compliance Standard	EN 50575: 2014+A1: 2016
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Compliance

Compliance Standard	Q/DXJ 195-2020
Certification	CPR (Eca)

Packaging

Cable Length	20 m ± 0.3 m (65.62 ft ± 7.87 ft)
Inner Carton Dimensions	220 mm × 245 mm (8.66" × 9.65") (L × W)
Net Weight	432 g ± 60 g (0.95 lb ± 0.13 lb)
Gross Weight	440 g ± 60 g (0.97 lb ± 0.13 lb)
Packaging Dimensions	399 mm × 273 mm × 334 mm (15.71" × 10.75" × 13.15") (L × W × H)
Packaging Method	20 m/carton, 30 inner cartons in one package

Ordering Information

Type	Part Number	Description
Cable Series	DH-PFM942I-20-9	CCTV Video and Power Cable

Dimensions (mm[inch])

