MK-600P

Power Cable to Ethernet

MK-600P-T

MK-600P-R

Description:

This is preliminary spec for Enconn's **MK-600P-T/R**, Enconn's **MK-600P -T/R** is for **IP long-haul** transmitter/receiver. It has the advantage of high speed, and long distance. By using this product, the data of IP end device such as IP camera can be transmitted back to head end either through existed coaxial cable or new deployed one. In addition, the receiver also has **PoE output** capability to power IP end device without local power. Since this product has capability to transmit IP signal and Power over **600m** and IP signal only over **900m**, it is suitable for IP camera system with long distance demand.

Specs:

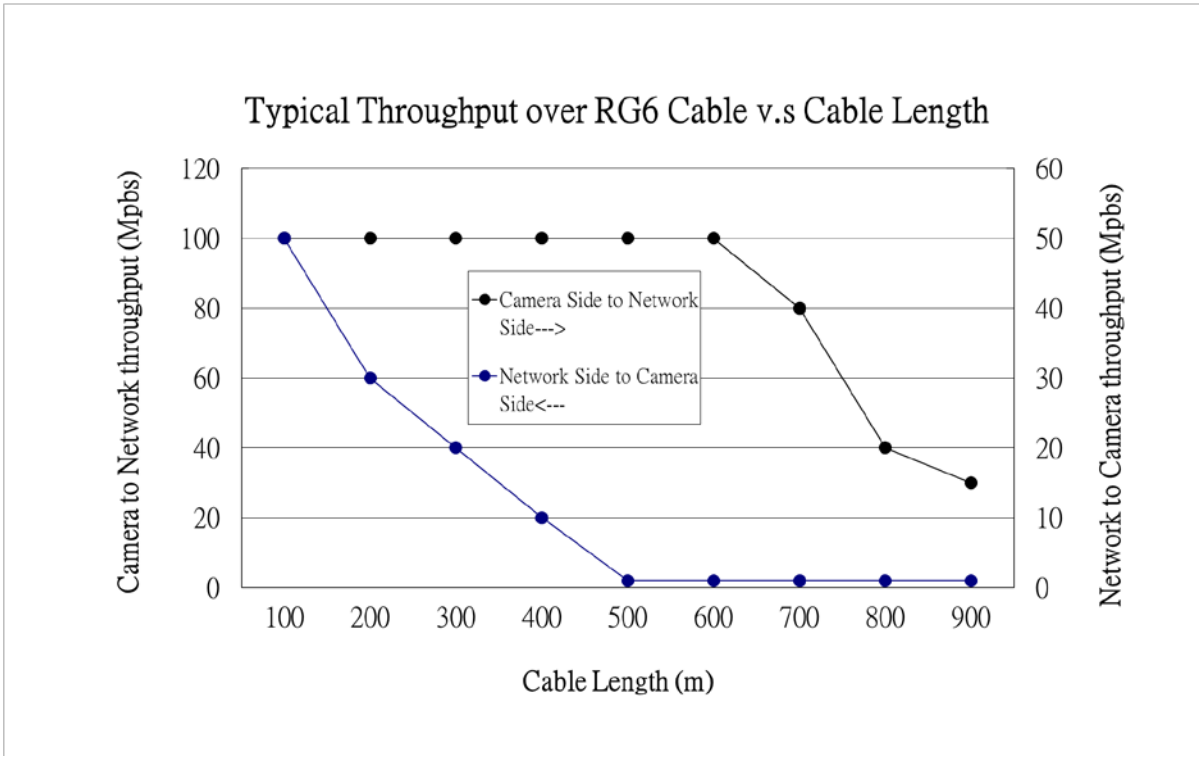
Parameter		Transmitter (Network Side)	Receiver (Camera Side)	Note
Model Number		MK-600P-T	MK-600P-R	
Interface	Ethernet	1 RJ45 Power + Data (PoE In)	1 RJ45 Power + Data (PoE Out)	
	Coax	1 BNC, Power + Data	1 BNC, Power + Data	
	DC Input	1 DC Jack, 2.1mm * 5.5mm	1 DC Jack , 2.1mm * 5.5mm	Note1.
Transmission speed		100 Mbps throughput		
100Mbps Transmission Distance		0~600 m @ RG6 coax cable		Ref. Cable Loss: 15dB @ 12MHz 26dB @ 44MHz
Maximum Transmission		>900 m @ RG6 coax cable		Ref. Cable Loss: >22.5dB @ 12MHz >39dB @ 44MHz

MK-600P

Dimension (W x D x H mm)	**90mm * 42mm * 22mm**	**79mm * 42mm * 22mm**	**Without Connector**
Ethernet interface	**10/100 BASE-T one port**		
Standard	**IEEE 802.3af/at**		
Coax interface	**BNC port**	**BNC port**	
Operating Temperature	**0~60 degree C**	**-10~60 degree C**	
Operating Humidity	**10%~90%**		
PoE output Power	**--**	**30W (max)**	
Power In	**48~56V**	**44~56V**	**Power adapter (120 V / 60Hz to 56V DC)**
Power consumption	**3W**	**2.6W**	**Typical power**

Note1: Local power using in TX when user has no PoE switch or PoE injector.

Throughput:



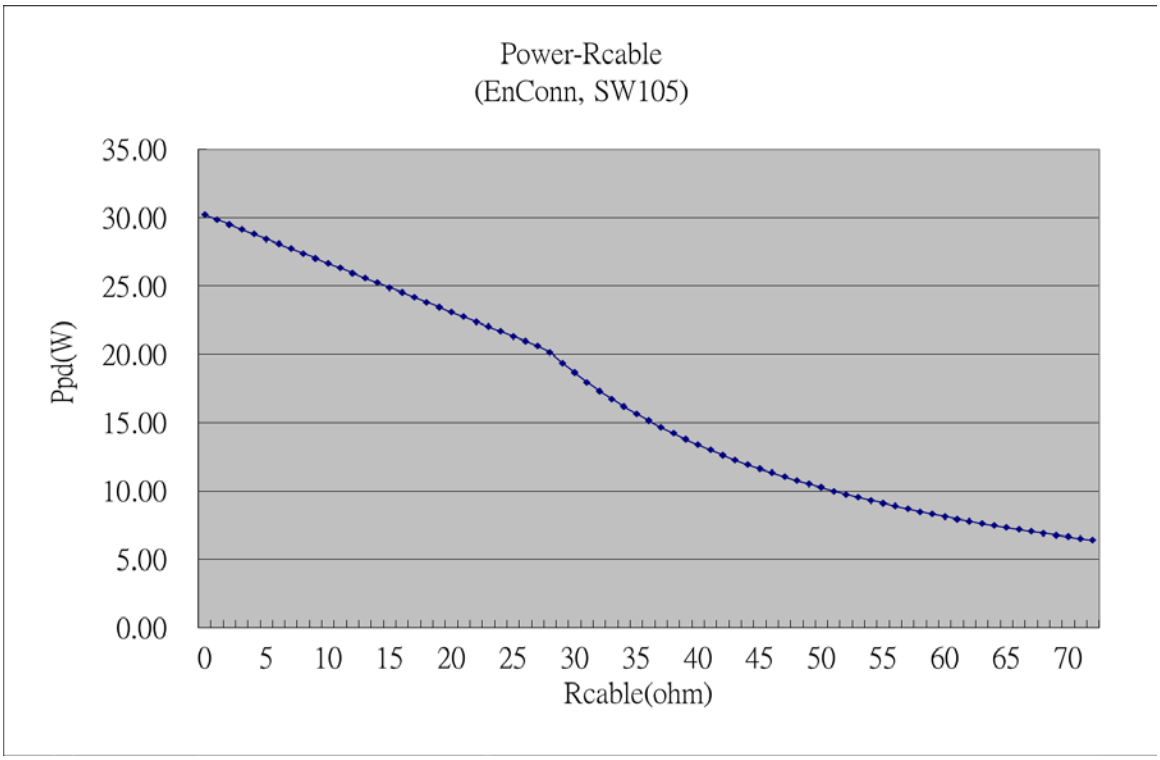
Maximal Power at Camera side v.s. Total Cable dc Resistance:

a. Powered by CamBridge SW105 with 802.3 at mode

39W/56V from SW105 port

Connection path:

PoE SW → MK-600P-T → Coax → MK-600P-R → IP Cam:

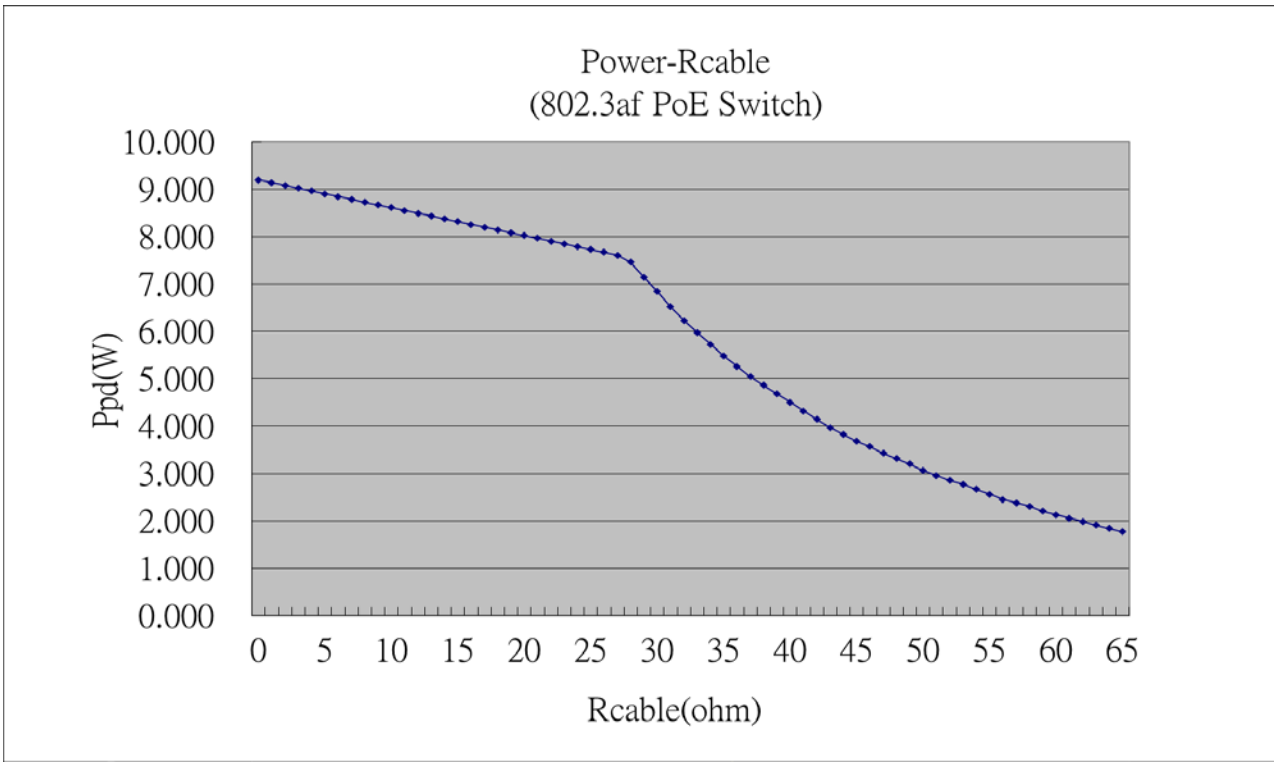


b. Powered by commercial 802.3 af switch

15.4W/48V from switch port

Connection path:

PoE SW → MK-600P-T → Coax → MK-600P-R → IP Cam:



Notes:

1. Cable DC Resistance =
   DC Resistance of Cable Inner conductor + DC Resistance of Cable Shield.
2. Typically, regular resistance of RG 6 is 13 ohm/100m.
3. Typically, regular resistance of RG 59 is 17 ohm/100m.
4. Typically, regular resistance of RG11 is 4.9 ohm/100m.
5. **Resistance of Low resistance RG6 such as WC5CFB16-200H is 3.7 ohm/100m.**
6. Resistance of Low resistance RG11 such as WC7CFB-A is 2.4 ohm/100m.
7. DC Cable Resistance should include Lan UTP Cable, 10ohm/100M (for standard POE interface, cat 5E)
8. EnConn's SW105 can provide maximal capability of 56V/0.7A per port, but the maximal total power will be limited by used power adaptor.