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Extenders

What is worth knowing?
Accessories for extenders in hermetic enclosure

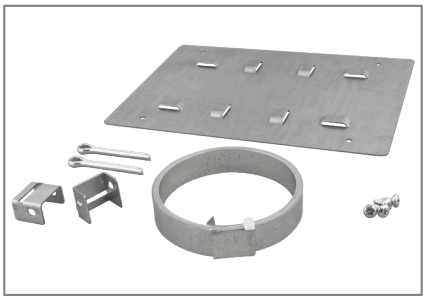
What is worth knowing?

PoE extender is LAN device that allows data and power transmission using one twisted pairs wire. Extender is mainly powered by PoE (sometimes it also has option of local power supply). PoE extenders should be used if we exceed distance of 100m between LAN devices (this guarantees correct data transmission in LAN). Another very common use of extenders is to use them as devices that allow you to connect additional cameras and transmit data using one twisted pairs wire. Examples of solutions are shown in following diagrams. Please note allowable power of connected devices.

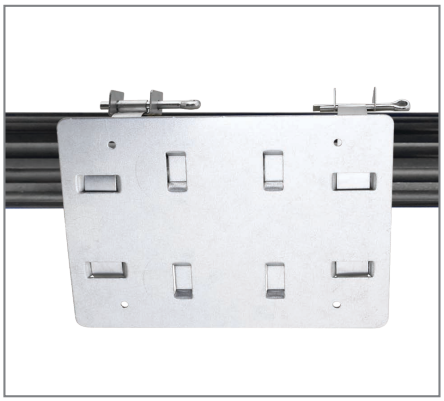
Application:

- Increased data and power transmission distance
- Possibility to connect more PoE IP cameras using one twisted pairs wire

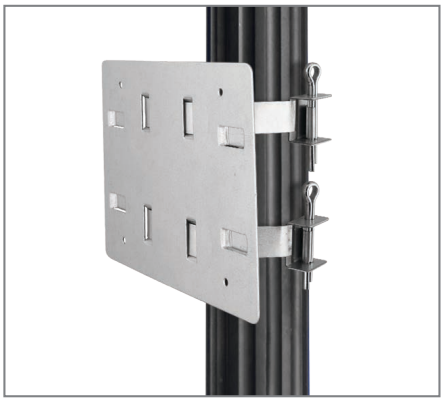
Accessories for extenders in hermetic enclosure.



OZB2 – Metal clamp with mounting plate

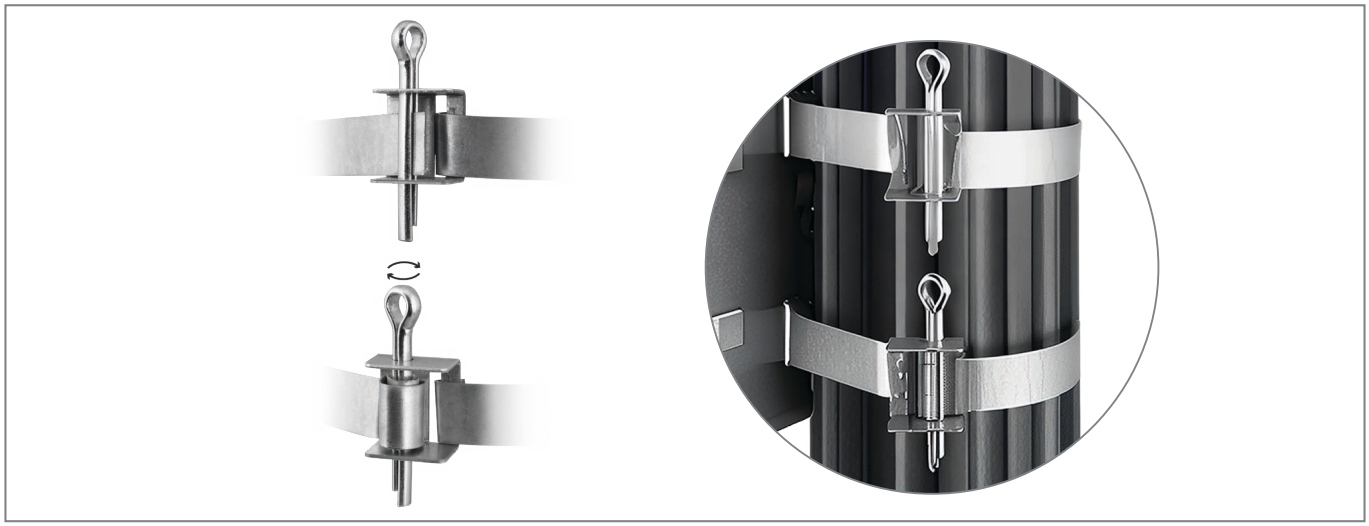


Horizontal pole mounting



Vertical pole mounting

Example of assembly



PoE extender
Desktop / for DIN rail / in hermetic enclosure – IP56




Desktop / for DIN rail

Code	Additional power input	RJ45 input / compliant with IEEE 802.3.....	RJ45 output / compliant with IEEE 802.3.....	Output power [W]	Total power [W]	Supports networks	Installation	Dimensions L×W×H [+/- 2mm]
							DIN rail / Mounting screws	
EXT-POE2	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15W / port 15W / port	20W	10/100 Mb/s	— / ✓	81×77×26
EXT-POE4	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15W / port 15W / port	20W	10/100 Mb/s	— / ✓	81×77×26
EXT-POE3DIN	—	PoE IN / compliant – af/at	PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at VLAN mode switch	25W / port 25W / port 25W / port	25W	10/100 Mb/s	✓ / ✓	50×23×81
EXT-POEG3DIN	—	PoE IN / compliant – af/at	PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at VLAN mode switch	25W / port 25W / port 25W / port	25W	10/100/1000 Mb/s	✓ / ✓	50×23×81
EXT-POE3	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / not compliant	30W / port 30W / port 15W / port	30W	10/100 Mb/s	— / ✓	81×77×26
EXT-POEG4DIN	—	PoE IN / compliant – af/at/bt	PoE OUT2 / compliant – af/at/bt PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at PoE OUT5 / compliant – af/at VLAN mode switch	45W / port 25W / port 25W / port 25W / port	45W	10/100/1000 Mb/s	✓ / ✓	57×85×23
EXT-POEG5	DC IN 48 – 57 V DC	PoE IN / compliant – af/at/bt	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at	30W / port 30W / port 30W / port 30W / port	40W – 60W (depends on way of supplying)	10/100/1000 Mb/s	— / ✓	118×85×28

In hermetic enclosure – IP56

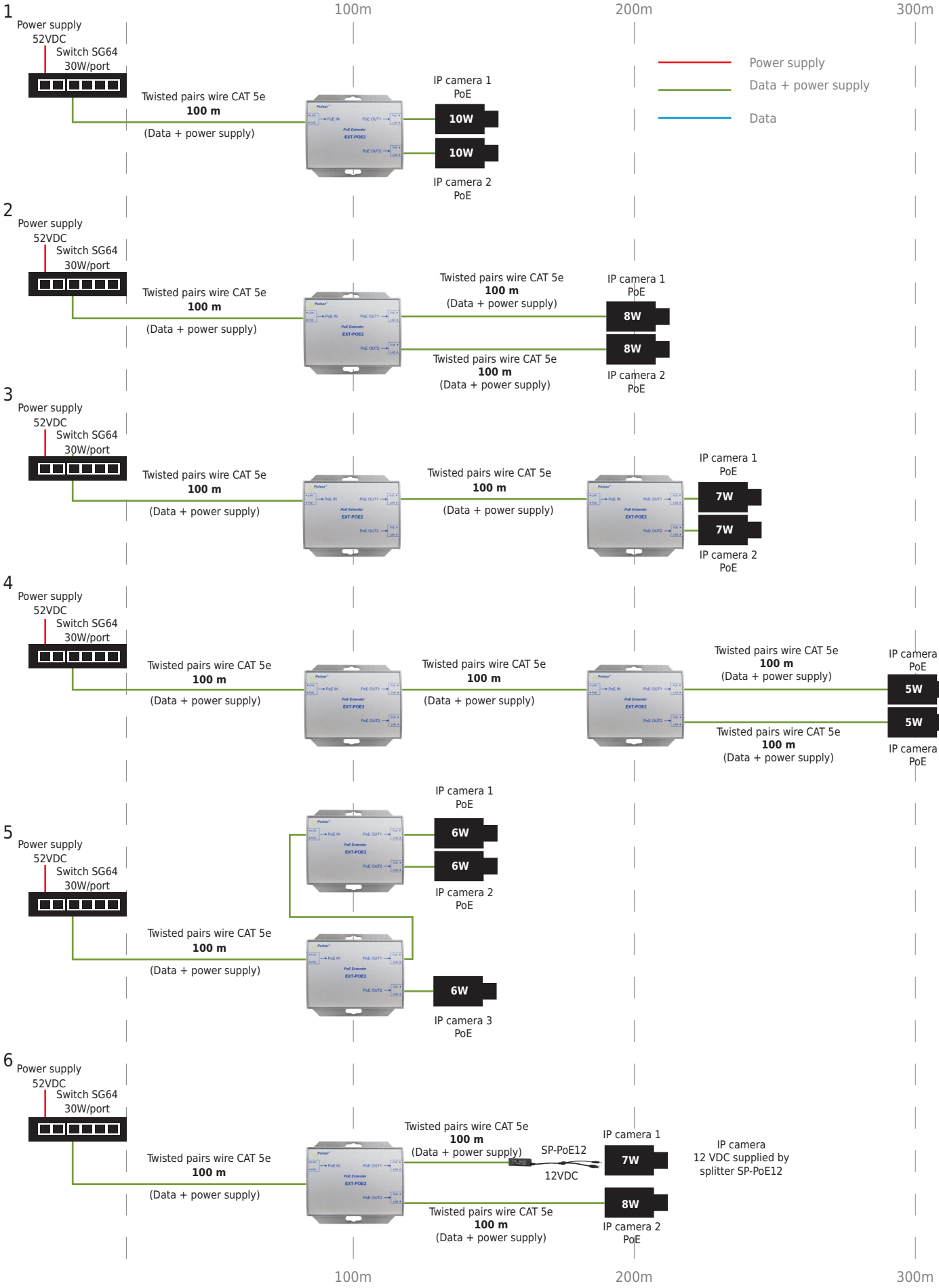
Code	Additional power input	RJ45 input / compliant with IEEE 802.3...	RJ45 output / compliant with IEEE 802.3...	Output power [W]	Total power [W]	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
EXT-POE2H	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15W / port 15W / port	20W	4 pieces / 6 – 13mm	148×198×78
EXT-POE3H		PoE IN / compliant – af/at	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / not compliant	20W / port 20W / port 15W / port	20W		
EXT-POE4H	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15W / port 15W / port	20W		

Application EXT-PoE2

Application EXT-PoE2 and EXT-PoE2H (in hermetic enclosure)

EXT-PoE2

EXT-PoE2H hermetic

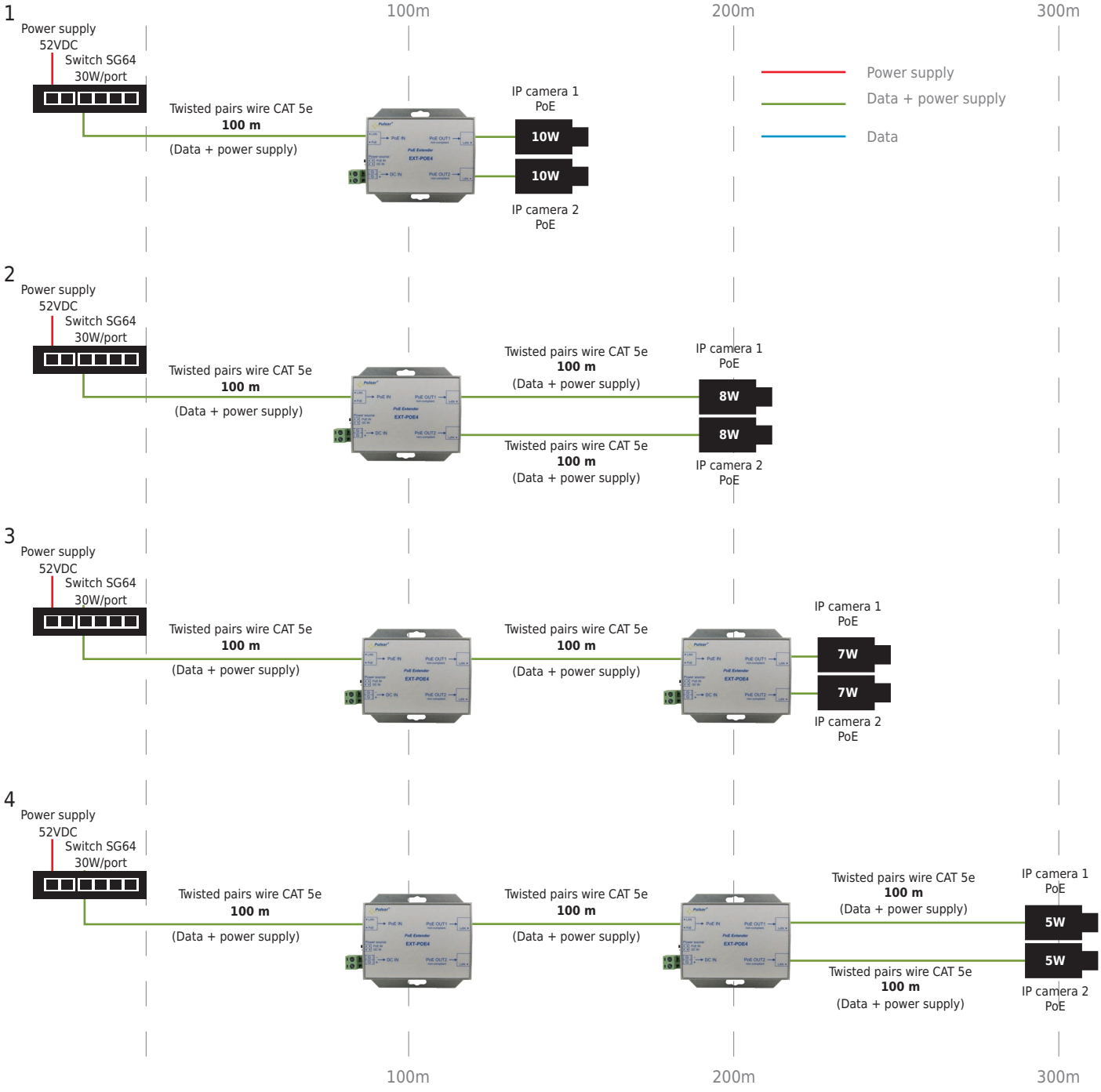


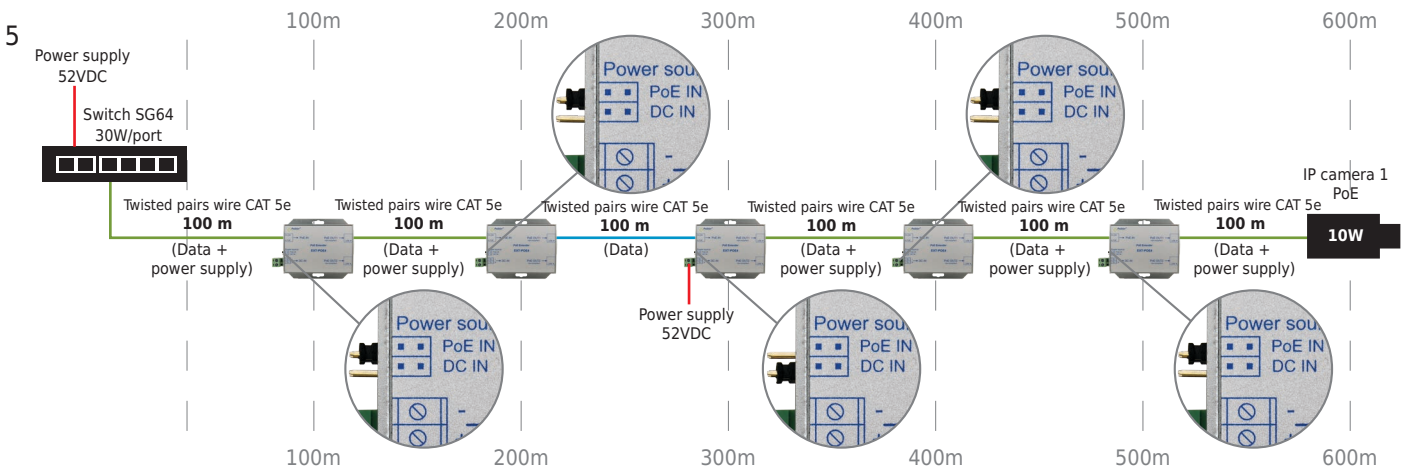
Application EXT-PoE4

Application EXT-PoE4 and EXT-PoE4H (in hermetic enclosure)

EXT-PoE4

EXT-PoE4H hermetic



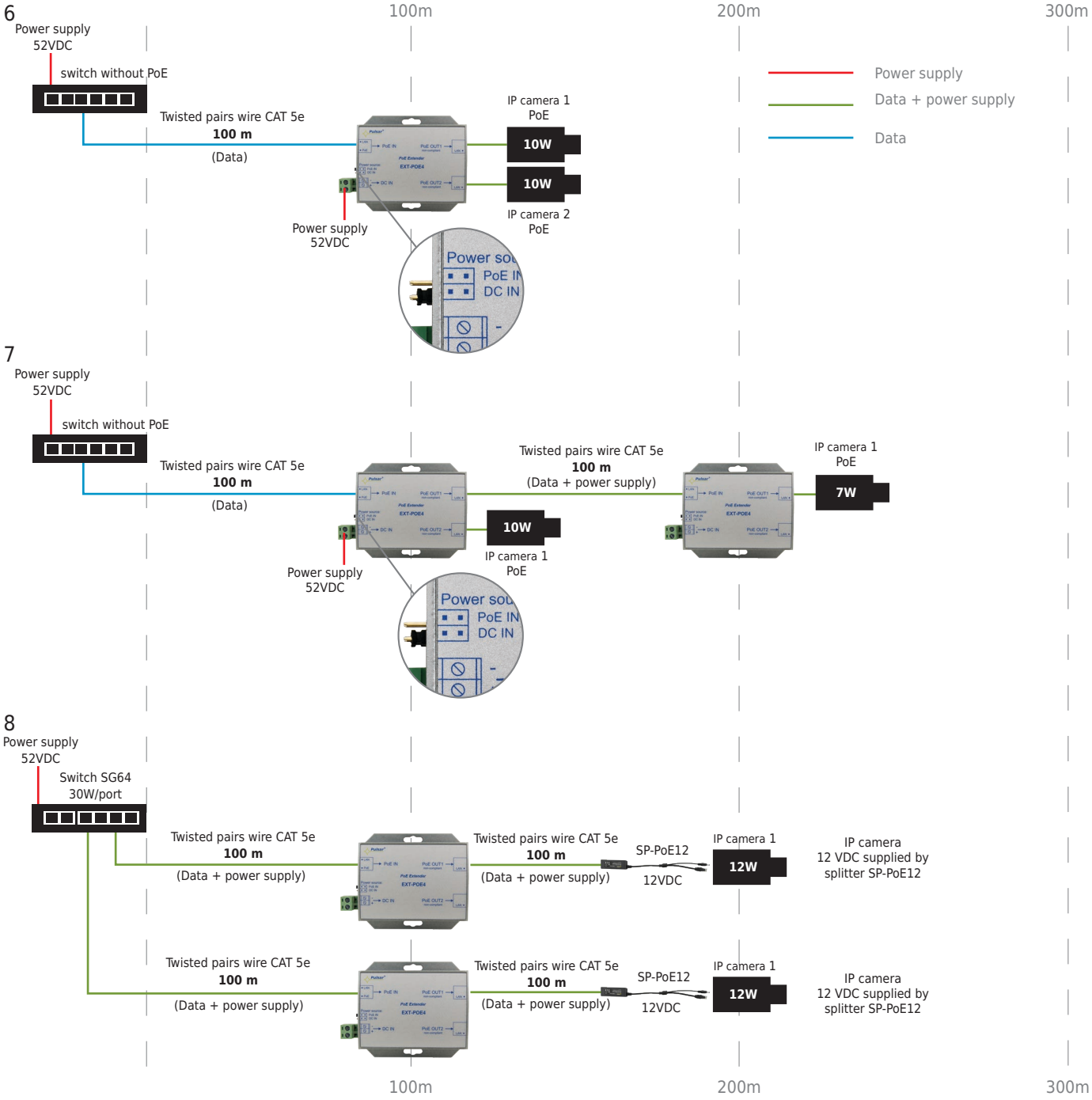


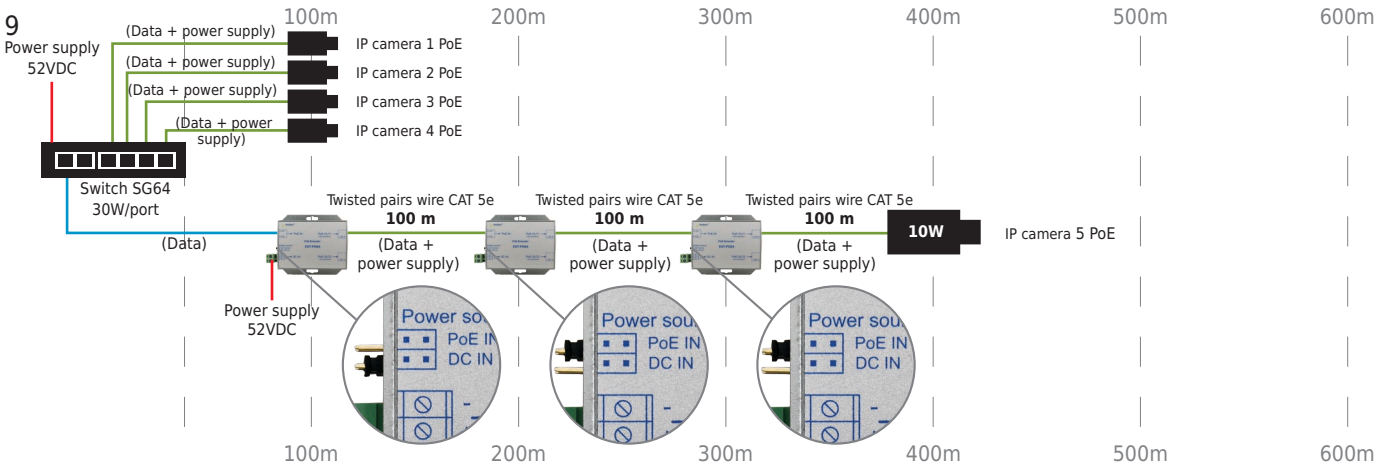
Application EXT-PoE4

Application EXT-PoE4 and EXT-PoE4H (in hermetic enclosure)

EXT-PoE4

EXT-PoE4H hermetic

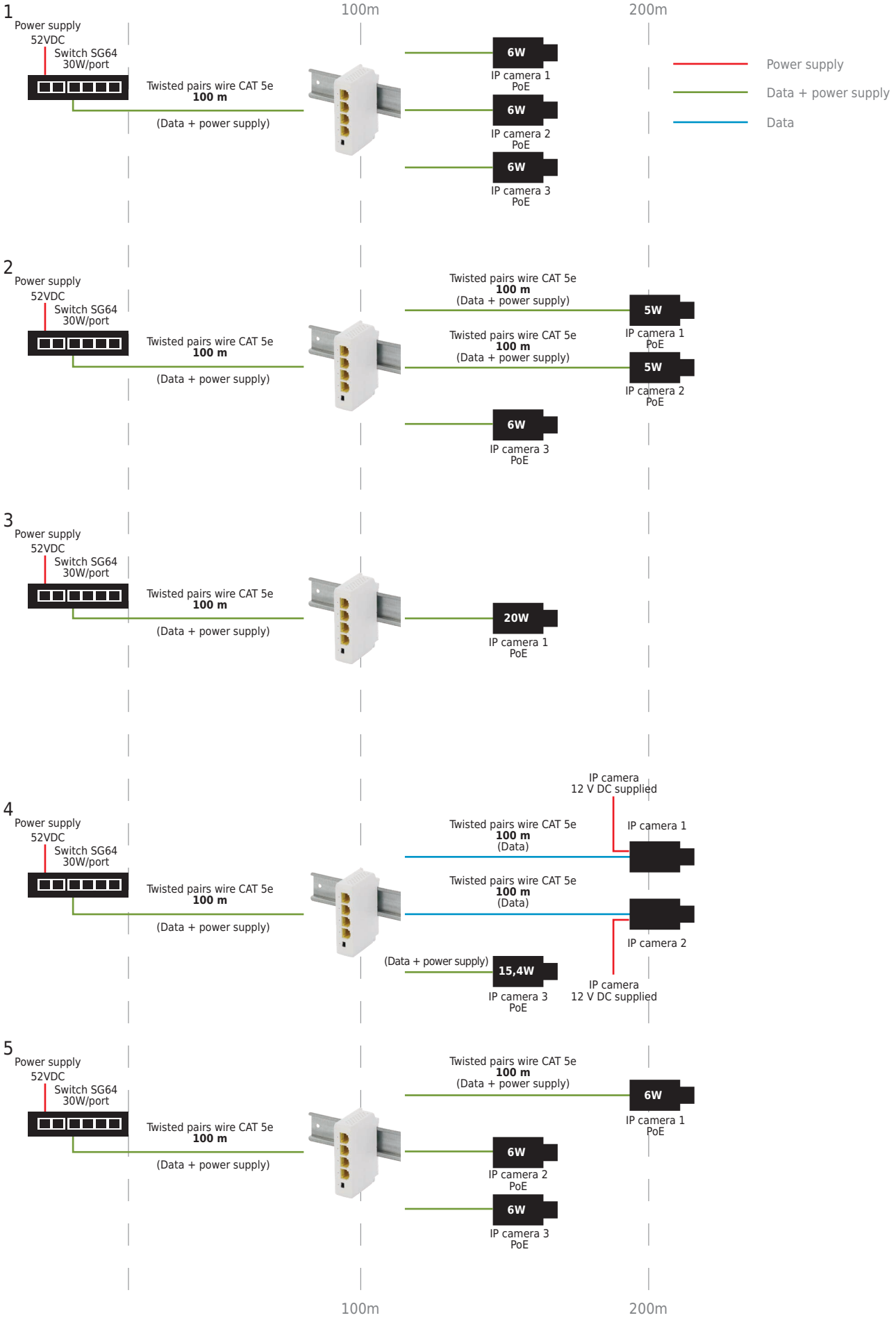




Application EXT-POEG3DIN

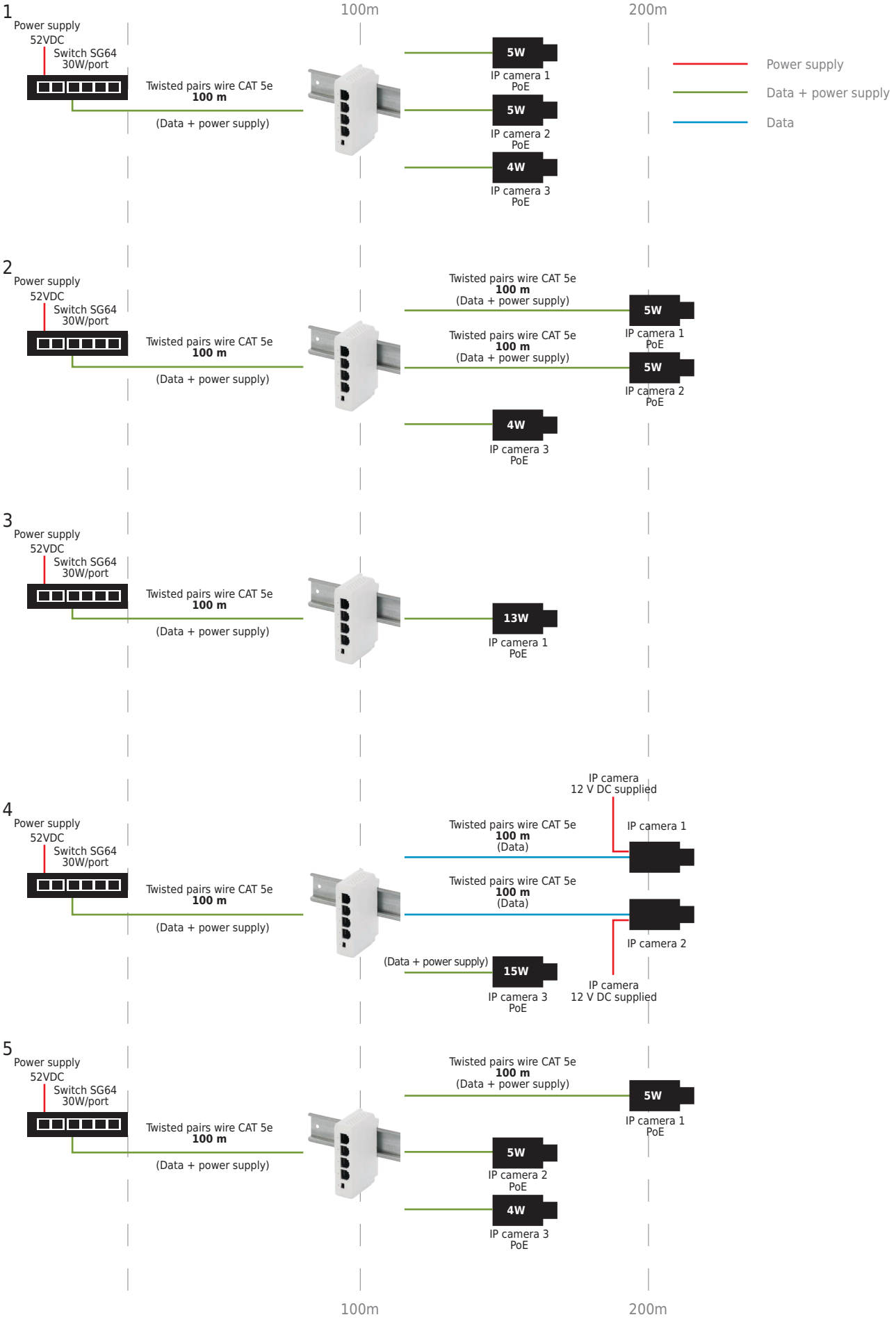
for DIN rail,
connection to 10/100/1000 Mb/s (min. UTP cat. 5e) network

EXT-POEG3DIN



Application EXT-POE3DIN
for DIN rail,
connection to 10/100 Mb/s network


EXT-POE3DIN

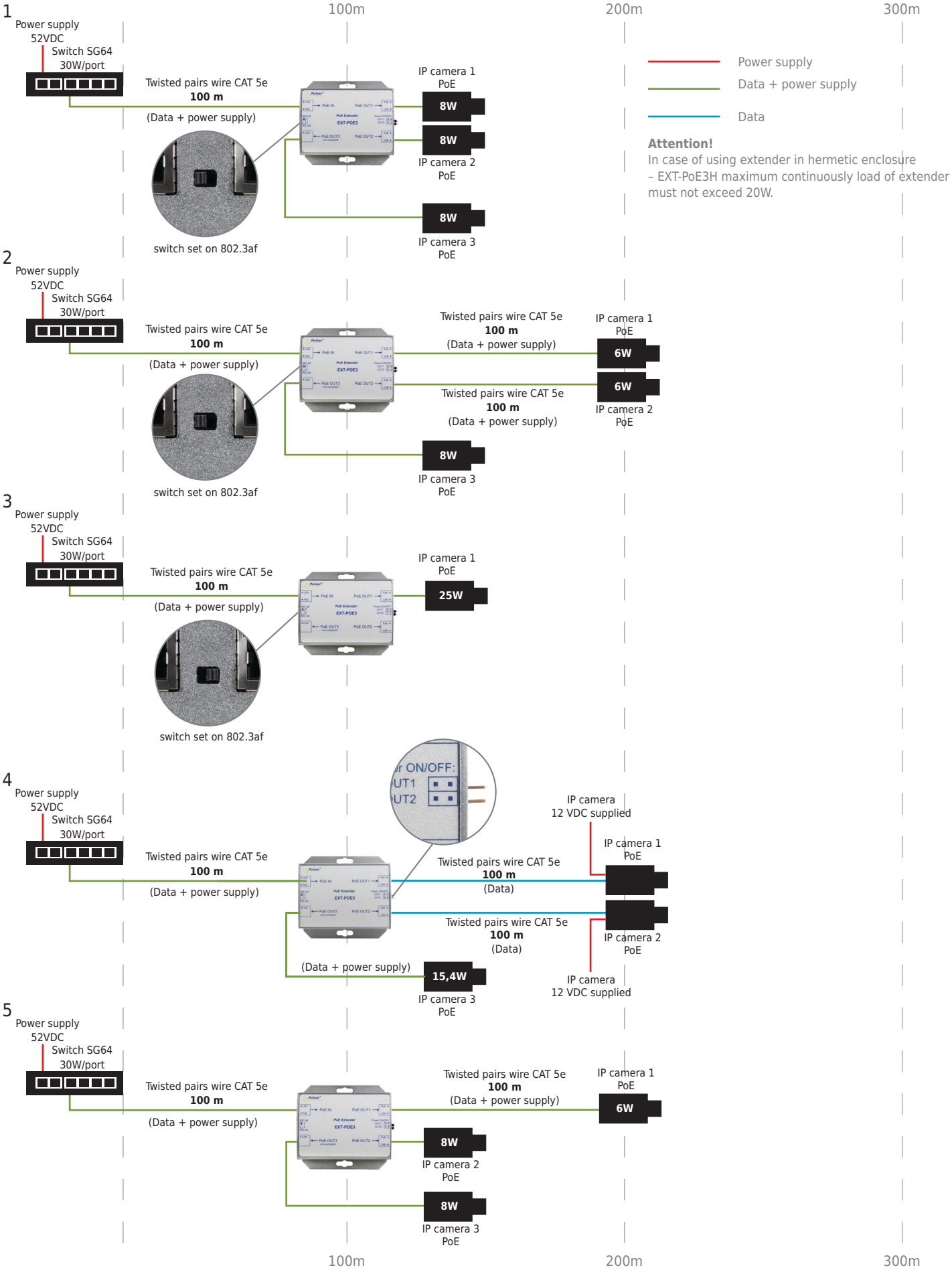


Application EXT-PoE3

Application EXT-PoE3 and EXT-PoE3H (in hermetic enclosure)

EXT-PoE3

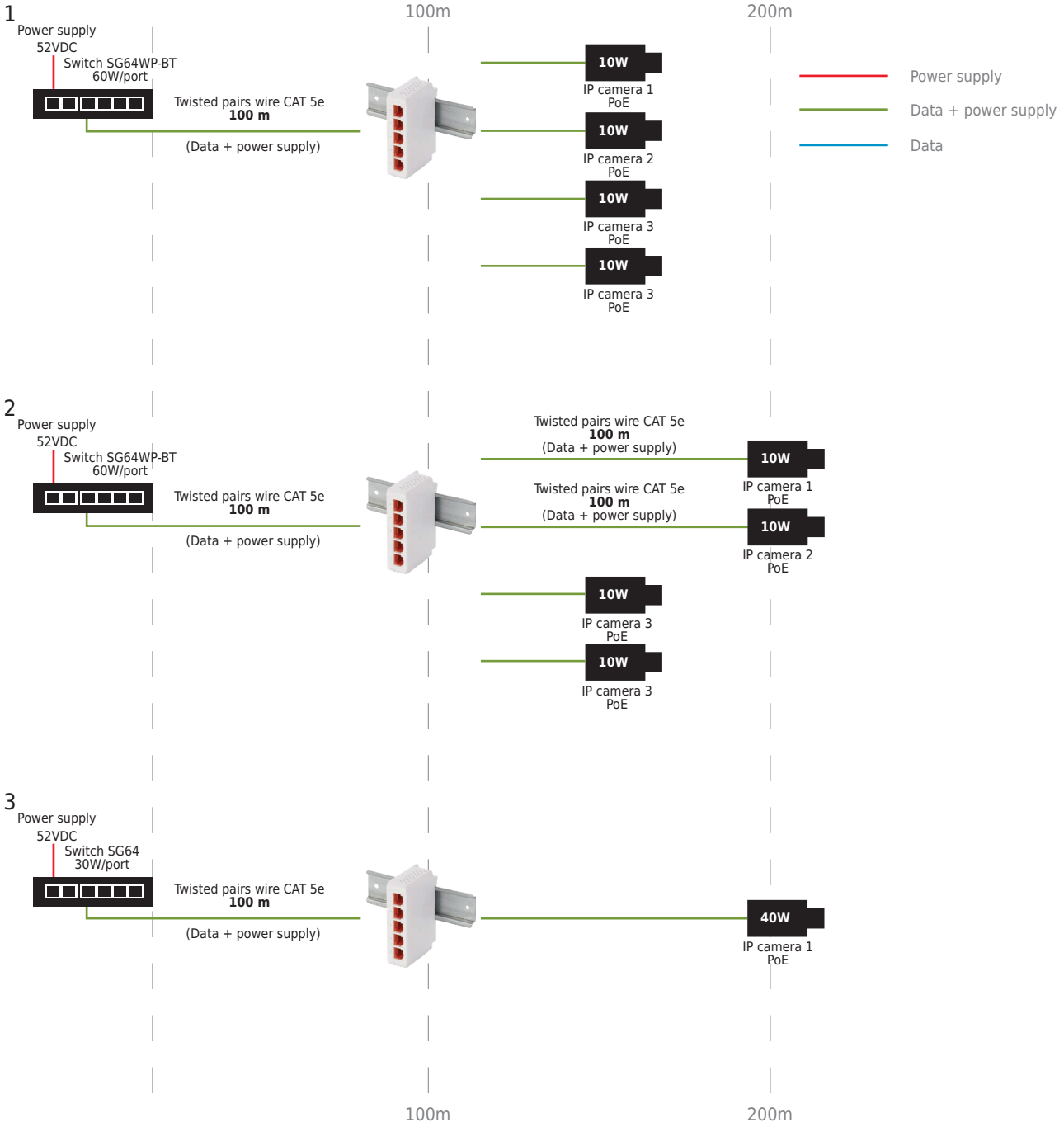
EXT-PoE3H hermetic



Application EXT-POEG4DIN

for DIN rail,
connection to 10/100/1000 Mb/s (min. UTP cat. 5e) network

EXT-POEG4DIN



Application EXT-POEG5

operation in 10/100/1000 Mb/s networks (min. UTP cat. 5e)

EXT-POEG5
10/100/1000 Mb/s

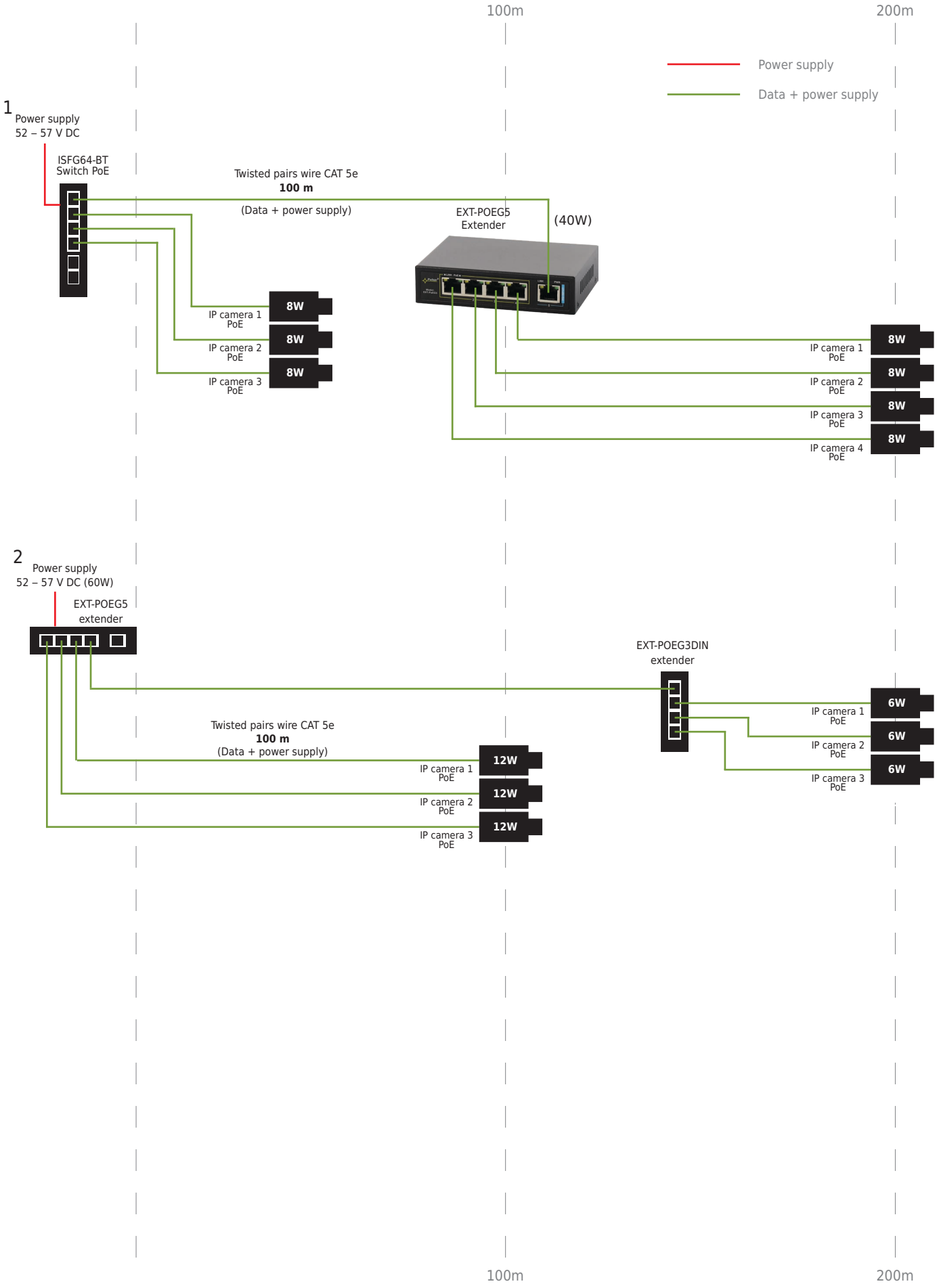


Table of switches

Code	Number of ports: PoE	PoE port power	UPLINK		COMBO	Long Range mode 10 Mb/s – up to 250m	Power supply	Brackets for mounting to surface	/	Mounting brackets for RACK 19″	/	DIN rail brackets	Dimensions W×H×D [+/- 2mm]
			ports RJ45	sockets SFP									
32													
SG32	2 – 1 Gb/s	30W	1 – 1 Gb/s	—	—	✓ (ports 1 – 2)	52 V DC / 60W desktop	—	/	—	/	—	103×29×50
64													
S64-40W	4 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 4)	52 V DC / 40W desktop	✓	/	—	/	—	118×28×85
S64							52 V DC / 60W desktop						
S64WP							48 – 57 V DC / 60W external power supply						
SG64	4 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 60W desktop	✓	/	—	/	—	118×28×85
SG64WP							48 – 57 V DC / 60W external power supply						
SG64WP-BT		60W		—	—	—	48 – 57 V DC / 120W external power supply	✓	/	—	/	—	118×28×95
SFG64	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓	/	—	/	—	118×28×95
SFG64WP							48 – 57 V DC / 60W external power supply						
SFG64WP-BT		60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 90W external power supply	✓	/	—	/	—	118×28×95
SFG64F1	4 – 1 Gb/s	30W	1 – 1 Gb/s	1 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓	/	—	/	—	118×28×95
SFG64F1WP							48 – 57 V DC / 60W external power supply						
108													
S108-90W	8 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 8)	52 V DC / 90W desktop	✓	/	—	/	—	190×28×105
S108							52 V DC / 120W desktop						
S108WP							48 – 57 V DC / 120W external power supply						
SG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 90W desktop	✓	/	—	/	—	190×27×105
SG108							52 V DC / 120W desktop						
SG108WP							48 – 57 V DC / 120W external power supply						
SFG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	52 V DC / 90W desktop	✓	/	✓	/	—	220×44×150
SFG108							52 V DC / 120W desktop						
SFG108WP							48 – 57 V DC / 120W external power supply						
SFG10F8	—	—	2 – 1 Gb/s	8 – 1 Gb/s	—	—	12 V DC / 2A desktop	✓	/	—	/	—	221×29×115
116													
S116	16 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 9 – 16)	230 V AC / 160W	✓	/	✓	/	—	270×44×181
S116WP							48 – 54 V DC / 240W external power supply						
SF116	16 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓	—	230 V AC / 160W	—	/	✓	/	—	442×44×224
SF116WP							48 – 54 V DC / 240W external power supply						
SFG116	16 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 160W	—	/	✓	/	—	442×44×224
SFG116WP					—	—	48 – 54 V DC / 240W external power supply						
124													
S124	24 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 17 – 24)	230 V AC / 240W	✓	/	✓	/	—	330×44×204
S124WP							48 – 54 V DC / 360W external power supply						
SF124	24 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓	—	230 V AC / 240W	—	/	✓	/	—	442×44×224
SF124WP							48 – 54 V DC / 360W external power supply						
SFG124	24 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 240W	—	/	✓	/	—	442×44×224
SFG124WP							48 – 54 V DC / 360W external power supply						
ISFG, ISFE series without power supply unit, with SFP socket, industrial													
ISFG42	2 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 60W external power supply	—	/	—	/	✓	30×128×112
ISFG64-BT	4 – 1 Gb/s	60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	—	/	—	/	✓	
ISFE64	4 – 2.5 Gb/s	30W	—	2 - 10 Gb/s	—	—	48 – 57 V DC / 120W external power supply	—	/	—	/	✓	
ISFG108	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	—	/	—	/	✓	54×176×153
ISFE98	8 – 2.5 Gb/s	30W	—	1 - 10 Gb/s	—	—	48 – 57 V DC / 180W external power supply	—	/	—	/	✓	48×161×142

Legend:

4 – 100 Mb/s — mark of number of ports 100 Mb/s

4 – 2.5 Gb/s — mark of number of ports 2.5 Gb/s

4 – 1 Gb/s — mark of number of ports 1 Gb/s

1 – 10Gb/s — mark of number of ports 10 Gb/s

Twisted pair wire
U/UTP – unshielded, Category 5e/6
PU-NC series

29	63,546
1336,6 2840	Cu
8,92	S
[Ar] $3d^{10}4s^{1}$	
Copper	

PU-NC200

PU-NC201

PU-NC206

PU-NC301

PU-NC301B

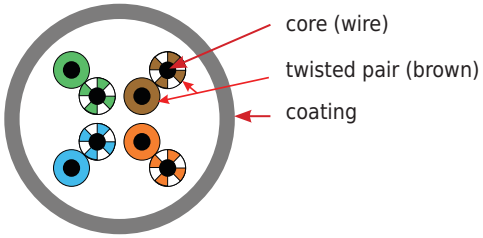
PU-NC302

Code	Parameters
PU-NC200	Twisted pair wire, U/UTP type, PVC, cat 5e, 25AWG, Cu, Eca, indoor, 305m
PU-NC201	Twisted pair wire, U/UTP type, PVC, cat 5e, 24AWG, Cu, Eca, indoor, 305m
PU-NC206	Twisted pair wire, U/UTP type, PVC, cat 6, 23AWG, Cu, Eca, indoor, 305m
PU-NC301	Twisted pair wire, U/UTP type, PE, cat 5e, 24AWG, Cu, Fca, outdoor, **305m**, UV resistance
PU-NC301B	Twisted pair wire, U/UTP type, PE, cat 5e, 24AWG, Cu, Fca, outdoor, **500m**, UV resistance
PU-NC302	Twisted pair wire, U/UTP type, PE, gel-filled, cat 5e, 24AWG, Cu, Fca, outdoor, 305m

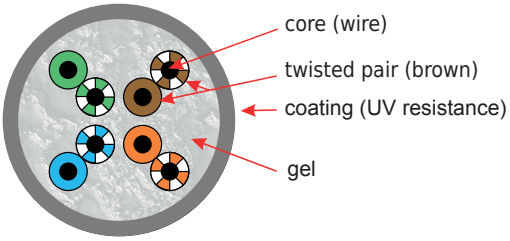
Application covers many different systems, starting from ICT systems, through IP video monitoring (especially recommended for IP PoE systems), to digital HD surveillance television (CVI, TVI, AHD) and access control.

Cable made of copper (99.99%), easily unwound in 305m cardboard packages. It has marker every 1m (from 305m to 1m) that facilitates measuring cable and quick determination of amount remaining in package.
Special cable winding system allows for easy removal of cable from packaging (without having to open it).

U/UTP



U/UTP



Notes

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