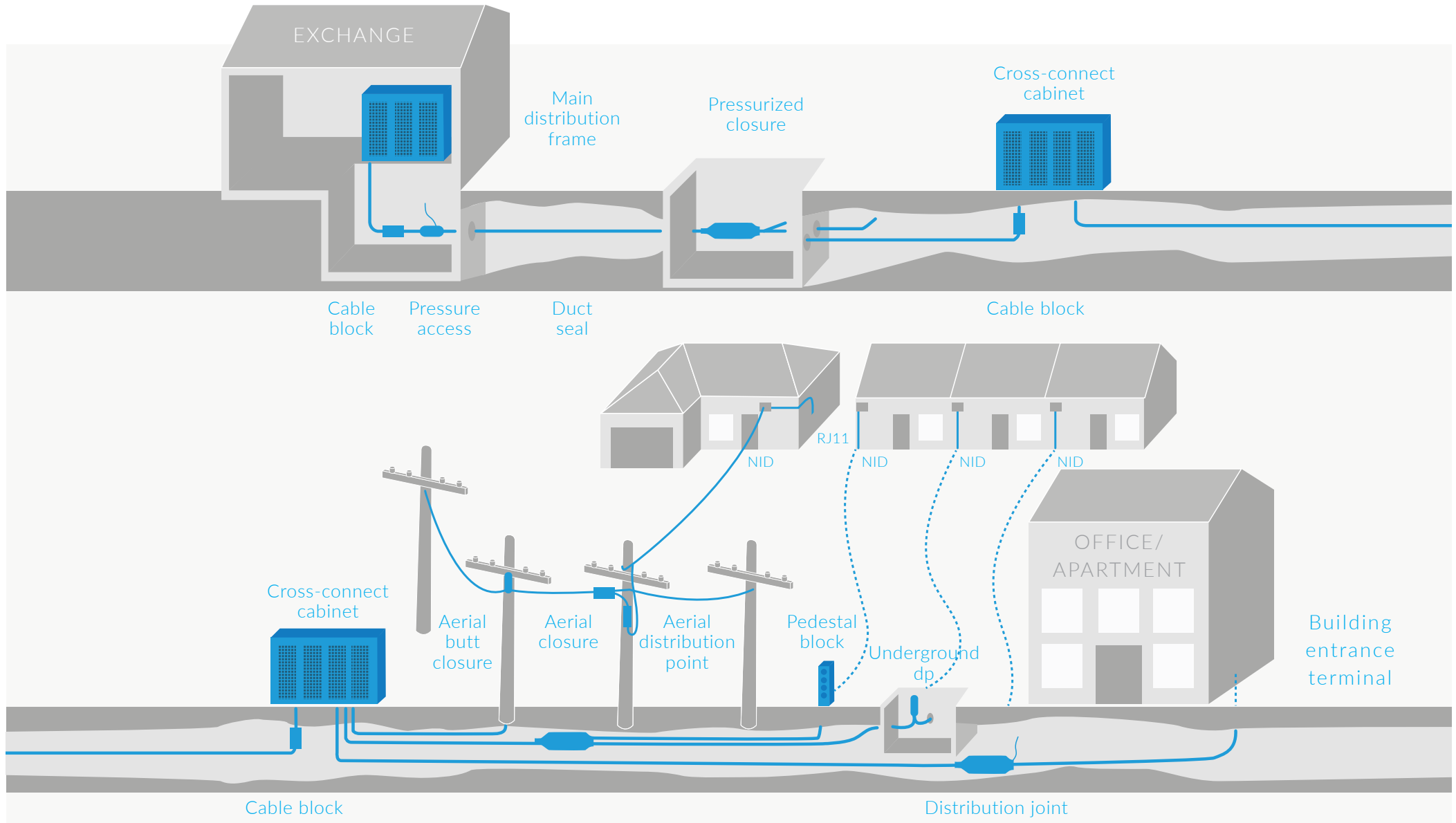


# Copper closures at a glance

## From feeder to drop







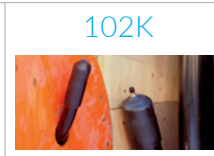


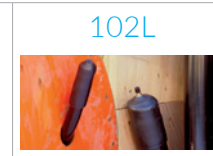
# Copper closures at a glance

## Reinforced heat-shrinkable wrap-around products

	Primary/feeder network PRESSURIZED	Primary/feeder/distribution network UNPRESSURIZED	
	XAGA-1000 	XAGA-500/530/1650 	XAGA-550 
Application	Joint protection	Joint protection	Joint protection
Sealing	Adhesive	Adhesive	Adhesive
Sizing (mm)	45/8 --> 200/65	43/8 ---> 125/30	43/8 ---> 200/50
Pairs	Up to 4800	Up to 600	Up to 3600
Splice protection	Metal canisters with valve	Laminated cardboard liner/ hygroscopic liner	Metal canister
Wrap-around	✓	✓	✓
In-Line	✓	✓	✓
Branch	Up to 4 in/out	Up to 3 in/out	Up to 3 in/out
Branch kit	Order separately	1 piece included	1 piece included
Cable type	PE/Pb : air core single, double jacket	PE/Pb : air core/jelly filled Single/double/triple jacket	PE/Pb : air core/jelly filled Single/double/triple jacket
Where used	Underground - Ducted - Manholes	Aerial - Buried - Ducted - Manholes	Manholes


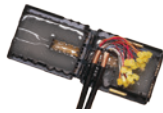



# Copper telecommunication network

## Reinforced heat-shrinkable products

	Primary/feeder network accessories PRESSURIZED					Primary/feeder/distribution network accessories UNPRESSURIZED		
	ACBS 	RWPS 	RCRS 	CBSM 	102K 	CWST 	RAYBLOCK 	102L 
Application	Air/water blocking	Pressure feeding/checking	Repair press. cable - no need for depressurizing	Air/water blocking small cables	End seal	Cable repair	Water block	End seal
Sealing	Adhesive	Adhesive	Adhesive	Adhesive	Adhesive	Adhesive	Adhesive	Adhesive
Underground	✓	✓	✓	✓	✓	✓	✓	✓
Direct buried	✓	✓	✓	✓	✓	✓	✓	✓
In-Line	✓	✓	✓	✓	✗	✓	✓	✗
Butt	✗	✗	✗	✗	✓	✗	✗	✗
Sizing (cable diam mm)	12 ---> 45	15 ---> 95	15 ---> 95	7 ---> 18	9 ---> 70	8 ---> 200	7 ---> 18	4 --> 70
Branching	✗	✗	✗	✗	✗	✗	✗	✗
Wrap-around	✓	✓	✓	✗	✗	✓	✗	✗
Tubular	✓	✗	✗	✓	✗	✓	✓	✗
Cable type	Air core	Air core	Air core	Air core	Air core	PE/Pb	PE	PE

# Copper closures at a glance

## Distribution network - cold installed closures

	MJC 	CERTI-SEAL 	GELSNAP 	TRAC 	TTRC 
Application	Joint protection	Joint protection	Joint protection	Joint protection	Joint protection
Sealing	Gel-seal mechanical latch	Gel-filled	Gel-filled	Gel-seal mechanical latch	Gel-seal mechanical latch
Aerial	✓	✓	✓	✓	✓
Underground	✓	✓	✓	✗	✗
Direct buried	✓	✓	✓	✗	✗
In-Line	✓	✓	✓	✓	✓
Butt	✓	✓	✓	✗	✗
Pairs	10 ---> 200	2 ---> 12	2 ---> 30	10 ---> 1800	25 ---> 600
Branching	✓	✓	✓	✓	✓
Wrap-around	✓	✓	✓	✓	✓
Cable type	PE single jacket	PE single jacket	PE single jacket	PE single jacket	PE single jacket

# Copper telecommunication network

Insulation displacement connections for pressurized and unpressurized networks

	TEL-SPLICE 	PICABOND 	AMP STACK 
Discrete	✓	✓	✗
Modular	✗	✗	✓
In-line	✗	✓	✗
Butt	✓	✗	✓
Conductor diam (mm)	0,4 --> 0,9	0,32 --> 0,9	0,4 --> 0,8
Conductor insulation	PE/PVC/PP	PE/PVC/PAPER	PE/PVC/PP
Cable type	PE/Pb	PE/Pb	PE/Pb
Pre-stripping	✗	✗	✗



# Copper closures at a glance

## CATV/COAX copper network

	 GSIC/FAST	 CERTI-SEAL	 VST	 TCS2
Application	Jumper --> feeder cable --> antenna cable	59 & 6 type connector 7 & 11 type connector	F type connector	Amplifiers/splitters/ tap offs/ground blocks
Sealing	Gel-seal	Gel-filled	Gel-filled	Adhesive
Sizing (mm)	13-17 ----> 52	n/a	4 ----> 7	6 ----> 69
Aerial	✓	✓	✓	✓
Underground	✗	✓	✗	✓
In-line	✓	✓	✗	✓
Antenna	✓	✗	✗	✗
Wrap-around	✓	✓	✓	✗
Tubular	✗	✗	✗	✓

# Copper closures at a glance

Duct sealing systems for fiber and copper telecommunication networks

	TDUX 	JACKMOON PLUGS 
Type	Inflatable duct seal system	Mechanical sealing system
Sealing	Self-sealing pressure	Rubber gasket
Cable type	PE/Pb	PE/blown fiber tubes
Duct type	Concrete/steel/PE/PVC	Steel/PE/PVC
Duct inside diam (mm)	25 ---> 150	
Number of cables	single/multi/"0"	JM BLANK PLUGS                    duct ID (mm): 18 --> 200 JM TRIPLEX PLUGS                duct ID (mm): 50 --> 200 sub duct/cable OD: # JM QUADPLEX PLUGS              duct ID (mm): 80 --> 200 sub duct/cable OD: # JM FO SIMPLEX PLUGS             duct ID (mm): sub duct/cable OD: # ACCESSORIES                        JM hole plugs: seal empty ports JM bushing sleeves: adapt to cable/ sub duct diam