

Microcable Solution
for flats

Construction principle: Microcable

Install microducting and blown cables as new customers connect.

Nexans' blown fibre cable solution, GAQDBV, is installed using the blowing method, in microducting with an internal diameter of 2.8-3.5 mm. The microcable and the HFFR tube are fire resistant and deliver excellent performance indoors and out. The microcable has a sheath so it can withstand the moisture that often collects in tubes and wide temperature fluctuations.

Optical customer termination

In the flat, the fibre optic cable is terminated in an "@xs Optical Terminal Outlet". It is the last passive interface before the end user.

The outlet is designed for two fibres, and its small dimensions mean that G657 fibres are the best option. There is space for two fusion or mechanical splices.

The optical connectors are held in adapters that are protected inside the outlet. When a cable is removed from the outlet, the hole is automatically sealed to prevent injury from the laser.

Installation is possible in the existing ducting in the flat (PVC tubes and wall boxes) by adding the accessory "cable and winding kit" to the optical outlet.

Fibre optic cable

Fibre optic cable of type GAQDBV, intended for indoor and outdoor installation in microducting. The cable structure has up to eight fibres. The compact acrylic fibre unit holds two, four or eight fibres, sheathed with halogen free, flame retardant material. The cable is optimised for blowing in microducting with an internal diameter of 2.8-3.5 mm. Meets the IEC 60332-1 fire standard in installations with HFFR ducting.

Preterminated fibre optic cable

Cables of type GAQDBV can be supplied pre-terminated, with or without "@xs Optical Terminal Outlet", on reels with any length up to 200 m.

To install the product, the reel is set up in a cable blowing machine inside the flat, and the cable is blown through microducting down to a property node, usually located in the cellar of the building.

Fibre optic building nodes

The building node is usually installed in a locked room, for example in the cellar. The choice of components in the building node depends on the selected installation method.

The Cros ITB splice closure is used if the interface between the incoming cable and the property network is splice-based. The Cros ITB splice closure can be used to splice up to 96 fibres (ribbon) and up to 36 microcables and/or microducts can be connected in addition to the incoming cable.

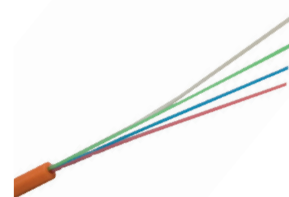
But if the interface is patch-based, an N-HNS building node cabinet is used. There are two versions of the N-HNS building node cabinet – one for 48 fibres and one for 192 fibres. Both versions support patching, splicing, cable management and cable/tube/fibre handling.

The choice of whether to use splicing or patching in the building is a trade-off between cost and the need for a clear interface between the network owner (incoming cable) and the owner of the property network (property owner).

Ordering information

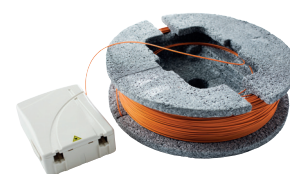
GAQDBV

Nexans part.no	Designation	Fibre count	Length m	Outer diam. mm
29573201	GAQDBV 2SM G657A	2SM	500	1,3
29573202	GAQDBV 2SM G657A	2SM	1000	1,3
29573401	GAQDBV 4SM G657A	4SM	500	1,3
29573402	GAQDBV 4SM G657A	4SM	1000	1,3



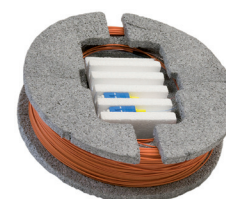
GAQDBV with SC connectors in @xs outlet

Nexans part.no	Designation	Fibre count	Length m	Outer diam. mm
48475009	Pre-terminated customer outlet @xs 2-SC/UPC	2SM	50	1,3
48475209	Pre-terminated customer outlet @xs 2-SC/UPC	2SM	75	1,3
48475409	Pre-terminated customer outlet @xs 2-SC/UPC	2SM	100	1,3
48475609	Pre-terminated customer outlet @xs 2-SC/UPC	2SM	150	1,3
48475809	Pre-terminated customer outlet @xs 2-SC/UPC	2SM	200	1,3



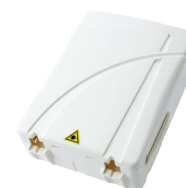
GAQDBV with SC connectors

Nexans part.no	Designation	Fibre count	Length m	Outer diam. mm
48477009	Pre-terminated customer access cable for outlet @xs 2-SC/UPC	2SM	50	1,3
48477209	Pre-terminated customer access cable for outlet @xs 2-SC/UPC	2SM	75	1,3
48477409	Pre-terminated customer access cable for outlet @xs 2-SC/UPC	2SM	100	1,3
48477609	Pre-terminated customer access cable for outlet @xs 2-SC/UPC	2SM	150	1,3
48477809	Pre-terminated customer access cable for outlet @xs 2-SC/UPC	2SM	200	1,3



@xs terminal outlet

Nexans part.no	Designation	Dimension mm
30793009	@xs optical terminal outlet	28x75x100
30793509	@xs cable winding kit	Diam. 67



Splice closure Cros ITB

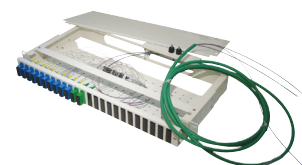
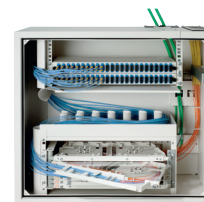
Nexans part.no	Designation	Dimension mm
30799909	Cros ITB 48 splices	95x300x230
30798509	Cassette for Cros ITB , 24 fibres	20x140x205
30798609	Grommet for 12 cables 2,2-4 mm	
30798709	Grommet for 12 cables 4-6 mm	
30798909	Blind plug ITB	
30798809	Cable clamp for Cros ITB	



Ordering information

Building node cabinet N-HNS 192 fibres

Nexans part.no	Designation	Fibre count	Length m	Dimension mm
30780509	N-HNS building node cabinet 192 fibres complete S			700x650x320
28138109	Pre-terminated sub-rack KB201 24SC/UPC	24	3	
28138009	Pre-terminated sub-rack KB201 48SC/UPC	48	3	
28138909	Pre-terminated sub-rack KB201 24SC/APC	24	3	
28138809	Pre-terminated sub-rack KB201 48 SC/APC	48	3	



Building node cabinet N-HNS 48 fibres

Nexans part.no	Designation	Length m	Dimension mm
30780709	N-HNS building node cabinet 48 fibres complete S		580x410x185
30798509	Cassette, 24 fibres		20x140x205
30454509	Plastic hinge for splice cassette		
48891309	Fan-out 4xSC/UPC	1,0 + 0,6	
48890109	Fan-out 4xSC-APC	1,0 + 0,6	
48893409	Fan-out 2*SC/UPC+2*SC/APC	1,0 + 0,6	
48893509	Fan-out 4xLC/UPC	1,0 + 0,6	
48899409	Fan-out 4xLC/APC	1,0 + 0,6	
30116309	Adapter SM SC-Duplex		
30116409	Adapter SM SC/APC-Duplex		
30116709	Adapter SM SC-duplex green/blue		
30117409	Adapter SM LC 4-ports		
30117609	Adapter SM LC/APC 4-ports		



Nexans IKO Sweden AB
Tel + 46 325-800 00

www.nexans.se - ftth.solution@nexans.com