

Communication Markets Division

3M™ ECAM Connect Kit SC/APC

Low Craft sensitive field mountable solution for Outdoor Drop Cables

The 3M ECAM Connect SC housing is designed to protect an SC simplex connector assembled on an outdoor drop cable. The ECAM Connect Kit contains of a field mountable SC/APC NPC (No Polish Connector) for outdoor cables and the housing which is assembled around the connector. It protects the connector against environmental impacts and gives additional mechanical strength.

With its standardized SC/APC type front face the assembled ECAM Connect drop cable can be inserted into a standard SC coupling. The embedded SC/APC NPC connector accepts tube in tube cables with a diameter from 3 – 6 mm.

With the field mountable ECAM Connect Kit the length of cables can be exactly adapted to the appropriate length in the field, thus requires no overlength storage as with pre-connected drop cables.

ECAM Connect is designed for wall and pole mounted closures. ECAM Connect can be plugged from outside into the ports of corresponding BPEO S0, S1 and S1,5 type closures, which have pre-assembled SC/APC standardized couplings inside the closure. For an easy and safe plug and play installation. An opening of the closure is not required.

To install a new drop (customer) only the dust caps of the closure port and on the ECAM Connect have to be removed to make the drop connection.



ECAM Connect field mountable kit



SC/APC NPC Connector and ECAM Connect housing

Features	Benefits
Small size, compact	Smaller terminal closures; high port density
Mechanical assembly	No special tool required, field installable
O-ring sealing	Easy connection maintaining the water tightness
Easy assembly and disassembly	Allows termination at cables which are already in the field to adapt them to 3M closures
Drop cable with standard SC/APC connector	No need for hybrid adaptors, lower cost
Kit for field mountable outdoor connector	Flexibility for assembly at different round cables in the field with no overlength
External drop connect with standard SC/APC connection	No need for opening of the closures to connect additional subscribers; low cost for homes passed; safe for already connected customers

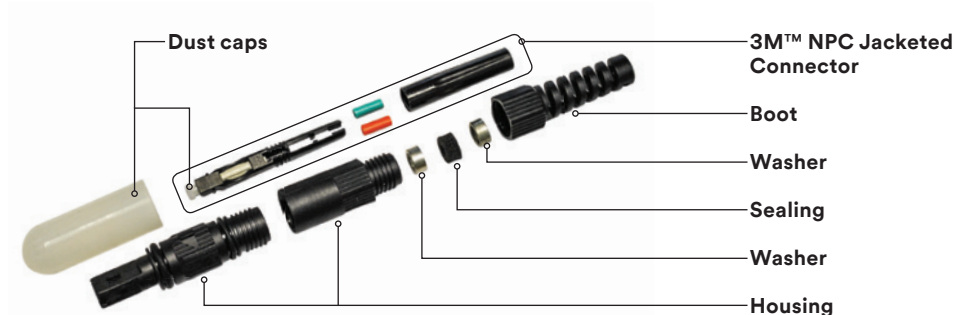
Product Description

The ECAM Connect Kit, is used to assemble a 3M NPC SC/APC connector with a watertight housing on an outdoor round drop cable.

The SC/APC front face of the housing is according to IEC 61754-4.

Content of Kit:

- Black housing
- 3M NPC SC/APC Connector type (8802 -T/APC/AS/6+3)
- Washers and sealing
- Dust caps
- Installation instruction



Applications

ECAM Connect Kits are designed for indoor/outdoor use in FTTH networks.

This hard connect system is used with BPEO ECAM Connect closures mounted in vertical position and inserted from the bottom of the closure.

Vertical wall (façade) mount and vertical pole mount with appropriate aerial drop cable.

Required Installation Tools:

- Fibre cleaver (flat cleave)
- Standard cable/fibre preparation tools (stripper, scissors for aramid, cleaning tools)
- No crimp tools needed
- Recommended 3M Tool kit 8865-C

Typical Properties

All tests done with DRAKA Outdoor cable L1083.

(*) Values presented have been determined by standard test methods and are average or typical values not meant to be used for specification purposes.

Mechanical characteristics

Material	Thermoplastic (housing), elastomer (sealing) and PE foam (grommet)	
Protection class	IP 65, if joined into ECAM Connect ports of a BPEO ECAM Connect closure	EN 60529
Operating temperature	-25 °C to +70 °C	IEC61300-2-22
Pull out force*) from BPEO port	typical 80 N (ramp 5N/s, dwell 60 sec.)	IEC61300-2-6

To avoid further mechanical load and accidental pulling, the drop cable assembled with the connector must be fixed nearby the closure, as also recommended in the installation manual N961865B.

*) Pull out force strongly dependent on quality of assembly of SC NPC

Dimensions



Fieldmount Connector:

Inside Connector Type	3M NPC Type 8802 -T/APC/AS/6+3	EN 50377-17-1
Outside housing	SC compatible interface acc.	IEC 61754-4

Optical Characteristics (3M NPC Type 8802-T/APC/AS/6+3)

Optical performance strongly dependent on quality of termination in the field with a flat cleaved fibre. The values below are measured at one cable type with well skilled persons in the lab.

Insertion loss (Room Temperature)	typical 0,35 dB (Measured against reference connector)	IEC61300-3-4
Back Reflection (Room Temperature)	typical < - 55 dB (mated)	IEC61753-3-6
Back Reflection (Operating Temperature)	typical < - 40 dB (mated)	IEC61753-3-6
Wavelength	1310 nm; 1550 nm, 1625 nm	

User Information*)

Regulatory:

RoHS 2011/65/EU *

Application/installation

see installation instruction N961865B

Safety information

included in installation instruction N961865B

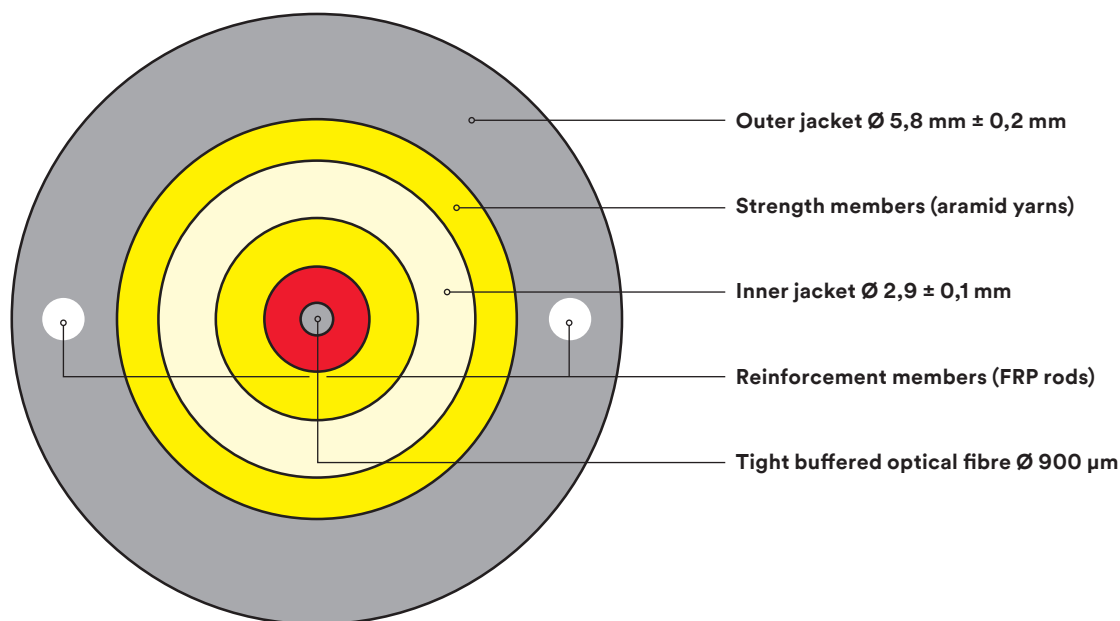
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This Product Bulletin is valid for following ECAM Connect Kits:
ECAM Connect Kit SC/APC/AS IP65

N721202A.

Cable structure example for use with ECAM Connect Kit SC/APC/AS/6+3

(All tests done with DRAKA Outdoor cable L1083)



Cables with strength members (rods) recommended to reduce shrinkage at temperature extremes

Fibre type	ITU.G.657.A2	
Buffer diameter	900 μm	
Type of buffer	Tight buffered fibre; easy strippable	
Strength members	Aramid yarns	
Reinforcement members	Glass Fibre Reinforced Polymer Inside black outer jacket, adapted for aerial applications	
Outer jacket material	LSZH; not corrosive, UV stable	


Mechanical Characteristics:

Max. tensile strength for installation	80 daN	EN 60794-1-2-E1
Crush resistance	200 daN/100 mm	EN 60794-1-2-E3
Min. bend radius	60 mm	EN 60794-1-2-E11A

Environmental Requirements:

During installation	- 5 °C to + 60 °C
During operation	- 40 °C to + 70 °C

Ordering Information

Product Description	Ref. No.	MOQ	
	ECAM Fieldmount Kit IP65 SCAPC AS	N721202A	60ea

*RoHS 2011/65/EU means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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