





Specific Connecting Devices

Contents

Field bus passive tapping in enclosure	226
Fied bus passive tapping on mounting base	227

Field bus passive tapping

ADO - ADO

1 subscriber

2 subscribers

3 subscribers

4 subscribers

BUS = pink + white core
A Subscriber = pink + white + green + black core

FX1 TAP
6 holes dia. 6.5

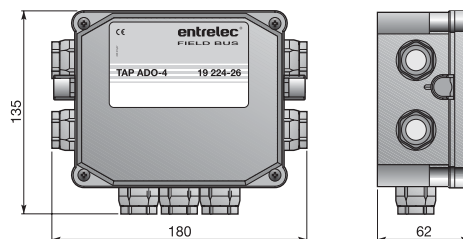
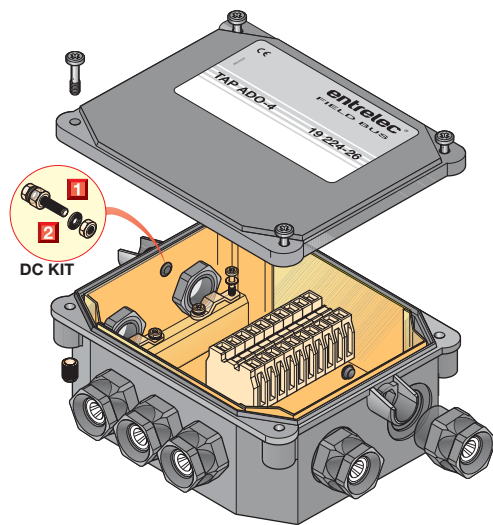
Mounting plate (ABB Entelec).
This metallic plate is screwed under the TAP box to allow mounting on any support.

1

2 KIT DC

Allows external access to the internal shielding by means of a DIA. 4 mm thread according to the mounting schematic.

TAP ADO System applies to all diversions from a main trunk cable to one or more subscribers.



TAP MAIN FUNCTION

(field bus passive tapping). Passive connecting device allowing the connection to a main cable (bus) of a subscriber.

A field bus installation requires a lot of tapings along the network. To simplify this critical operation, ABB Entelec has designed a new tapping device based on the unique ADO System.

ADO System
Reliable - Easy - Fast

FIP bus wiring schematic

The wiring layout is given for example purpose only. It may be adapted to the application.

Characteristics	Values	Standards
BOX		
Protection degree	IP 50 (IP 65 on request)	IEC 329
Flame class rating	V0	UL 94
thermoplastic material glass reinforced		
Vibration test	On board railway specification	NF EN 50-155
Characteristics impedance	150 Ω, ± 10 %	NF C 46-604
Electrostatic discharge	8 kV	IEC 801-2
Radiated Field test	10 V/m	IEC 801-3
Field wiring temperature range	-5 à + 40°C	IEC 947-1
Operating temperature	-40 à + 100°C	
CABLE		
Compatible cable type	PEDE289779 PEDE298849	Filotex Filotex
For any other cable, please contact us		
CONNECTION		
Connection type		
Insulation displacement ADO / ADO		
Wire size	Solid wire 0.28 to 1.5 mm ² Stranded wire 0.34 to 1.5 mm ²	IEC 947-7-1
Nominal voltage	1000 V	IEC 947-7-1
Schock wave test	8 kV	IEC 947-7-1
Nominal current	17.5 A	IEC 947-7-1

Selection

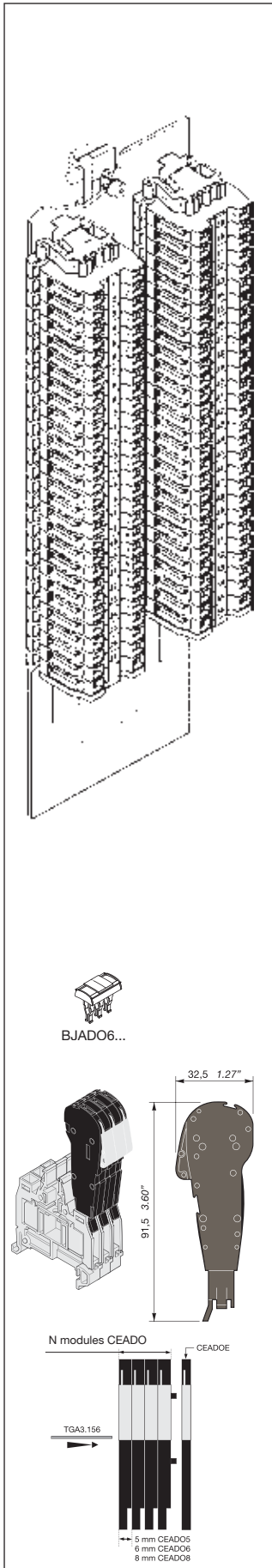
Description	Type	Order P/N	Packaging Weight kg
Field bus passive tapping	TAP ADO-4	1SNA 019 224 R2600	

Accessories

Plate	FX1 TAP	1SNA 019 211 R2100	
DC Kit	KIT DC	1SNA 019 027 R1400	
Marking method	RC65	see marking	

Field bus passive tapping

ADO - ADO



TAP ADO System applies to all diversions from a main trunk cable to one or more subscribers.

This product has specially been developed to comply with cable connection requiries (max. allowed 28 pairs) in order to set up phone, signal and remote control distributors. ADO System® technology allows a great cabling rapidity, an important connection safety and a large resistance to environmental aggressions (corrosive atmosphere, vibrations).

Simplicity, sturdiness and costs have been specially studied.

Description of the product :

- Terminal block mounting base in zinc bichromate plated steel
- DIN 1 rail mounting
- Wire size :
 - . 28 pairs of conductors from 0.34 mm² to 1.5 mm².
 - . 2 conductors by connection are allowed if they have the same size and the same nature.
- Connection using a half automatic tool OUPAD or a manual tool (included).

Electrical data :

- Rated voltage: 1000 V according to CEI 60947-1
- Resistance to shock voltage : 8 kV according to CEI 60947-1
- Resistance to contacts lower than 2 mΩ.

Dimensions :

- Length : 255 mm
- Width : 90 mm
- Height : 50 mm

Selection

Description	Type	Order P/N	Packaging	Weight kg
Field bus passive tapping		1SNA 002 265 R0700		

Accessories

Screwless jumper bar IP20	orange			
	2 poles	BJADO6.2	1SNA 205 974 R0600	
	3 poles	BJADO6.3	1SNA 205 975 R0700	
	4 poles	BJADO6.4	1SNA 205 976 R0000	
	5 poles	BJADO6.5	1SNA 205 977 R0100	
	10 poles	BJADO6.10	1SNA 205 982 R2700	
20 poles	BJADO6.20	1SNA 205 992 R2100		
Test connectors on ADO jaw	CEADO.6	spacing 6 mm	1SNA 399 346 R1200	
End module	CEADO.E	th. 4.4 mm	1SNA 399 341 R1500	
Marking method	RC610		see marking	