

# TYPE FT-1 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

REF.  
10 POS SW.  
UPPER SECTION  
FRONT VIEW  
(CVR REMOVED)

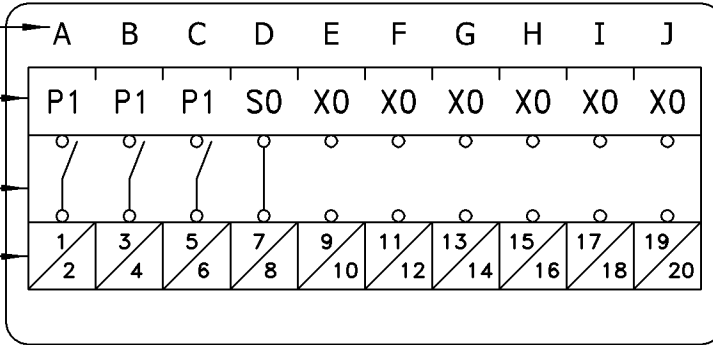


POLE POSITIONS

SWITCH ARRANGEMENT

INTERNAL SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



ARRANGEMENT: P P P S X X X X X X

**STYLE No:** 9688A67G01

**CODE No:** 643

**CLASS 1E:** NO

No. POLES: 4

No. POTENTIALS: 3

No. CURRENTS: 1

TIE BARS: NONE

DRILL PLAN: 129A500

INT SCHEMATIC: 991A643

Table 1 - Description of Poles for FT Flexitest Switches

Pole Type	Pole Designation		Handle Color	Description & Schematic Symbol
Potential	P1	P	Black <sup>†</sup>	Potential, non-shorting blade.
Current	C1	C	Black <sup>†</sup>	Current, non-shorting, with test jack and blade.
Current †† Shorting	C1-C1	C-C	Black <sup>†</sup>	Current shorting (make-before-break), with test jack and blade.
	C1-A1	C-A		Current shorting (make-before-break), with blade only.
	C1-B0	C-B		Current shorting (make-before-break), with stud only.
	C1-D0	C-D		Current shorting (make-before-break), with test jack only.
	C1-E1	C-E		Current shorting (make-before-break), with shorting blade only.
	C1-S0	C-S		Current shorting (make-before-break), with fixed shorting strap.
Other	D0	D	None	Current test jack, no blade.
	S0	S	None	Fixed shorting strap.
	X0	X	None	Empty pole position.

† = See Table 2 for complete list of color handles.  
 †† = Current shorting poles can span up to 5 positions, and can have any combination of color handles (ex: C1-C7-C5-C2-A4).

Table 2 – Handle Colors

Pole Type	Pole Designation		Handle Color
Potential	P1	P	Black
	P2	T	Red
	P3	H	Brown
	P4	V	Purple
	P5	G	Green
	P6	Y	Yellow
	P7	Z	Blue
	P8	W	White
	P9	O	Orange
Current	C1	C	Black
	C2	R	Red
	C3	3	Brown
	C4	4	Purple
	C5	5	Green
	C6	6	Yellow
	C7	7	Blue
	C8	8	White
	C9	9	Orange

**TEST PLUGS:**

INDIVIDUAL CURRENT CIRCUIT TEST PLUG.  
 STYLE No: 7B4618G04

SEPARATE SOURCE TEST PLUG (10 POS).  
 STYLE No: 1164046

IN-SERVICE SERIES TEST PLUG.  
 STYLE No: NONE

ECO EM2007-1099 1

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SOFTWARE TYPE:  
 AUTOCAD 2006

ENG. REF:  
 MFG DWG: FT1-643  
 GEN DWG: 1616C24

DATE: M.Uriguen 4/8/2008  
 CHK: M.Uriguen 4/8/2008  
 APPR: Tim Masters 4/8/2008



TITLE:  
**FT-1 SWITCH  
 POLE ARRANGEMENT & INT SCH**

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SIZE: **A** DWG. NO: **991A643** REV: **1**

ABB Protective Relays and Switches, Coral Springs Fl, U.S.A.

SCALE: **NONE** SHEET 1 OF 1