Transposed Cable Fault Finder

Model PF

Model PF

Test procedure

During the strip wire transposed cables, short circuits are formed between adjacent strips, generally caused by the action of the strip former hammer or by metal particles pressed by the stranding machine or caterpillar, punching the strip insulated layer. For this reason, it's necessary to detect such defects already during cable production and rewinding. The test is performed by applying an alternate voltage between the different wire pairs; in case of anomaly, a unique hand-held detection sensor is used to localize the right short circuit position and proceed for its reparation.

To control strand-to-strand fault according to ABB1ZBA 16601-1, a second adjustable test voltage from 0 up to 500 Vdc is available. A couple of safety test leads apply the test voltage only at wires completely in. At the end of the test, the wire pair under test is short-circuited to discharge the residual voltage accumulated, avoiding undesirable electrical shock.

System description

- 24Vac 1.2KHz, fault to locate the fault point.
- From 0V to 500 Vdc, the fault current is 5mA, suitable for testing the continuity of covering according to the ABB1ZBA 16600-1 standard.

- Supplied complete test cables
- Digital voltmeter to monitor dc test voltage (model PF)
- Sound/visual alarm for anomaly signaling
- Hand-held sensor with sensibility adjustment for fault localization

Specifications

Model	PF	PF1
PF, PF1		
Dimensions		
Dimensions (WxDxH)	360x240x180 mm	360x420x180 mm
Weight	11 kg / 22.2 lb	13 kg / 28.6 lb
Power supply		
Volt	100-240 V	100-240 V
Hertz	50/60 Single phase	40/60 Single phase
Volt-amperes	200	250
Options		
V1K Test voltage 1000V_{dc}		
Standards		
ABB	1ZBA166001-1	1ZBA166001-1

DSE Test Solutions A/S
Sverigesvej 19
DK-8700 Horsens
Denmark

+45 7561 8811
www.dsetestsolutions.com
dse@dse.dk