

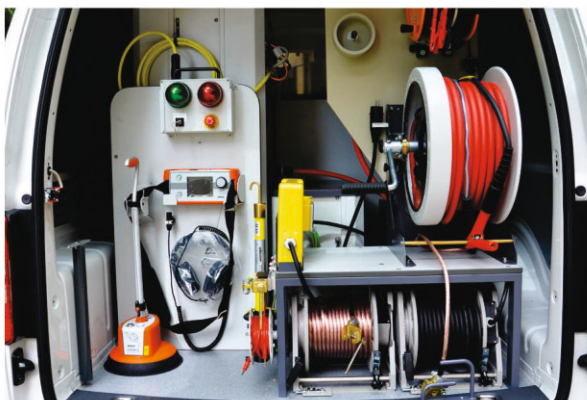
# Small cable test and fault location system for vehicle installation



Customized Mahindra Bolero Camper

## Compact City / SFX 40-M

- Easiest operation by the Teleflex SX
- High surge energy
- All HV-prelocation methods integrated
- Maximum safety
- Fits into small transporters



**Megger**<sup>®</sup>

# Compact City / SFX 40-M

## Description

Megger India's "Make in India" initiative brings you the latest Cable Test Van "Compact City", which is loaded with the SFX 40.

The SFX 40 is a multi-functional system for testing up to 40 kV, prelocation, pinpointing and converting cable faults in low and medium voltage networks up to 32 kV.

The system is either controlled directly via the connected Teleflex SX reflectometer or via the integrated control panel.

All functions of the system can be easily performed via the jogdial of the Teleflex. The user interface allows even for inexperienced users an easy and clear operation, guiding the user to a successful result. At the same time, the integrated safety system and the separation transformer guarantee a maximum of safety.

As van mount solution, the system has different optional cable drum modules. In connection with the NSF E Mains control system, further technologies as a VLF test and diagnostic module can be integrated to build a complete system.

## Accessories

Accessory list SFX 40 portable und mobile		Accessory list SFX 40 mobile	
<b>Manuals</b>		<b>Cable drum modules; single phased</b>	
128312674	SPG 40, manual de	HV connection lead 40 kV, mains lead 2 x 4 <sup>2</sup> , earth lead 16 <sup>2</sup>	
128312675	SPG 40, manual en	CDM-H-1-25-SPG40	Cable drum module; manual; 25 m
128312676	SPG 40, manual fr	CDM-M-1-25-SPG40	Cable drum module; motor; 25 m
128312677	SPG 40, manual pt	CDM-H-1-50-SPG40	Cable drum module; manual; 25 m
128312678	SPG 40, manual hu	CDM-M-1-50-SPG40	Cable drum module; motor; 50 m
128312679	SPG 40, manual it	<b>Connection technologies</b>	
128312680	SPG 40, manual ru	128310527	Coax HV connection, complete / HSK27
83780	SPG 40, manual es	810000815	EKS 80; adapter 1-pole, earth lead 80 cm with screw clamp
83147	Teleflex SX, manual de	810000808	EKD 80; adapter 1-pole, earth lead with screw on handle and MC-connector
83179	Teleflex SX, manual en		
83180	Teleflex SX, manual ru	700100437	NH-Adapter; SPG 5-1000 / SPG 40
83591	Teleflex SX, manual fr	<b>Vehicle installation accessories Compact City</b>	
83699	Teleflex SX, manual es	Decision and details by the project team!	Table left hand steering
83842	Teleflex SX, manual pt		Table right hand steering
83863	Teleflex SX, manual it		Set of rear door contacts
83904	Teleflex SX, manual pl	Additional there is a large amount of possibilities, as the NSF E for the integration further devices into the system or custom furnishing.	
<b>Safety</b>		The amount of these optional possibilities exceeds the clarity of this table and should always be supported by our project specialists, which can advise customer specific solutions	
820003206	External safety system with 5 m connection leads		
2006112	External safety system with operation and 5 m connection leads		

## Modes

- Insulation test up to 5,000 V
- DC test up to 40 kV with ramp function, automatic switch-off in case of breakdown and display of break down voltage
- ARM prelocation procedure method, ICE impulse current method and Decay voltage decoupling
- Burning with adjustable burn current
- High surge energy for acoustic pinpointing
- Flexible adaptable voltage levels for MV and LV levels
- Sheath fault location with step voltage method
- Extensive safety circuits for monitoring of earth (FΩ), step voltage (FU), emergency OFF, temperature etc.

## Technical data

Display	¼ VGA
Insulation test	Voltages 1,000 V and 5,000 V ranges 1 kΩ, 1 MΩ, 100 MΩ
DC testing	0 40 kV DC
Leakage current	0 1 / 10 / 100 mA automatic range setting
Breakdown detection	0 40 kV
Burning	0 ... 8 kV, 750 mA; 0 ... 20 kV, 0.1 A
Upper surge voltages	0 12.5 / 25 kV or 0 16 / 32 kV
Lower surge voltages (optional)	0 ... 4 kV; 0 8 kV 0 ... 3 kV; 0 6 kV
Surge energy	1,000 J in each area (optionally 2,000 J for vehicle installation)
Surge sequence	3 10 sec. and single pulse
Sheath fault location	0 5 kV and 0 10 kV
Cycle intervals	DC; 1:3 ; 1:4 ; 1:6 (sec.)
HV prelocation (with optional teleflex)	ARM, ICE current decoupling, Decay voltage coupling
Operating temperature	-10 °C + 50 °C
Power supply	230 V; 50 / 60 Hz (110 V optional)
Power consumption	1.7 kVA max.
Dimensions (L x W x H)	520 x 430 x 1050 mm
Weight	140 kg



## Order information

Model		SFX40.....	-W	-X	-Y	-Z
Van Mount System 32 kV		SFX40-32M				
Van Mount System 25 kV		SFX40-25M				
<b>HV surge voltage selection</b>	12.5 / 25 kV or 16 / 32 kV; 1000 J		-1			
	12.5 / 25 kV or 16 / 32 kV; 2000 J		-2			
<b>LV surge voltage selection</b>	4 kV; 1000 J			-A		
	8 kV; 1000 J			-B		
	4 / 8 kV; 2000 J			-C		
	3 kV; 1000 J			-D		
	6 kV; 1000 J			-E		
	3 / 6 kV; 2000 J			-F		
	No LV			-G		
	3 kV; 2000 J			-H		
	6 kV; 2000 J			-I		
	4 kV; 2000 J			-J		
	8 kV; 2000 J			-K		
	4 / 8 kV; 1000 J			-L		
	3 / 6 kV; 1000 J			-M		
<b>TDR and control selection</b>	Teleflex SX, complete control by Teleflex SX				-S	
	Teleflex T 3060				-6	
	No TDR				-N	
	No TDR - T 3090 preparation				-9	
	Teleflex SX with detached control panel				-C	
	Teleflex VX				-X	
	No TDR				-M	
<b>Version outfit</b>	Normal: with MC 10 and 230 V					-N
	US version: with MC 14, hook lugs, 120 V					-U

### Important:

A vehicle installation requires, as any other van mount solution, a project support and confirmation by our project team. The above configuration table is only a guidance to specify the basic parameters of the system. Additionally the cable drums and vehicle specific installation materials are required. Also furnishing of the van requires furniture adapted to the according vehicle.

### Included Accessories of the -N Version:

Standard are a vehicle mounting frame, all required connection leads and accessories of the integrated safety system.

### Included Accessories of the -U Version:

Mounted on ground plate with shock absorbers, HV lead with 14 mm MC male connector, and HV return with hook lugs with hotline clamp, safety ground 16 mm<sup>2</sup> copper lead with hook lugs on both sides, all leads 15 ft/5 m.

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