

Single Pair Ethernet

# SPE CONVERTER

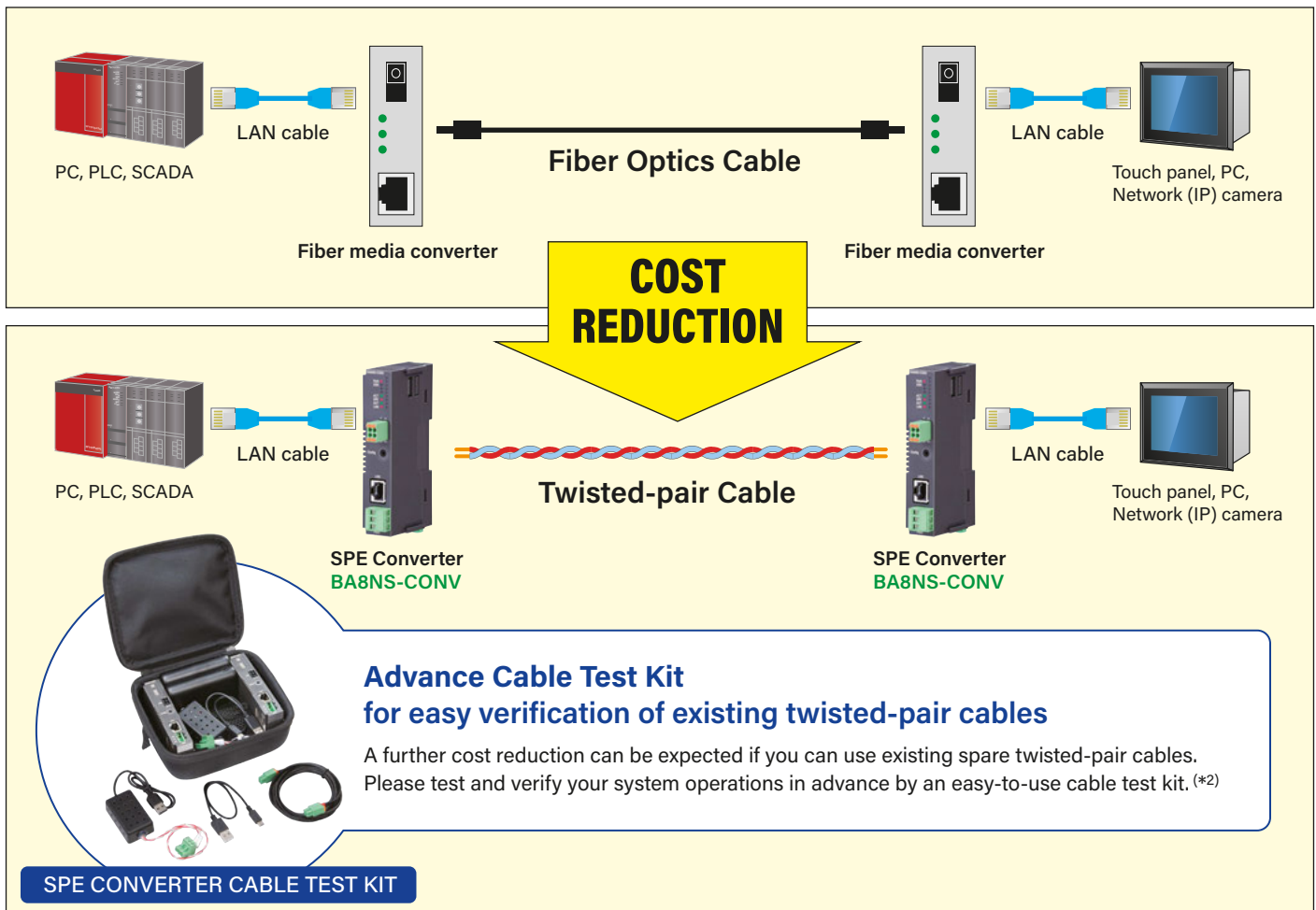
- LAN cables can be substituted by twisted-pair cables
- Transmitting max. 1000 meters <sup>(\*)1</sup> (0.62 mile)  
in 10 Mbps data rate
- Existing spare twisted-pair cable may be used

**Model: BA8NS-CONV**



## Great Cost Reduction Compared from Fiber Optics Cable System

If you want to transmit Ethernet signals over 100 meters (109 yards), fiber optics cables are usually used. By using a pair of **SPE Converters** (Model: **BA8NS-CONV**), expensive fiber optics cables and fiber media converters including installation work costs can be eliminated for a great total cost reduction.



<sup>(\*)1</sup> Standard defined value. Transmission distance depends upon cable categories and environment.

<sup>(\*)2</sup> Availability and conditions of use of cable test kits vary in individual countries. Please consult with a local sales representative.

## GENERAL SPECIFICATIONS

**Construction:** Stand-alone

**Connection:**

• **Power**

**Unit side connector:** MSTB2,5/3-G (Phoenix Contact)

**Cable side connector:** MSTB2,5/3-ST  
(Phoenix Contact)

**Applicable wire size:** 0.2 - 2.5 mm<sup>2</sup>, stripped length 7 mm

• **LAN:** Modular jack for 10BASE-T/100BASE-TX (RJ-45)

• **10BASE-T1L**

**Unit side connector:** In-house made

**Applicable connector:** DFMC1,5/2-ST-3,5

(Phoenix Contact) included in the package

**Applicable wire size:** 0.2 - 1.5 mm<sup>2</sup>, stripped length 10 mm

**Isolation:** LAN to SPE to power to FE

## COMMUNICATION

**Number of connected client:** 1

■ **Ethernet**

**Communication standard:** IEEE 802.3u

**Transmission type:** 10BASE-T, 100BASE-TX

**Transmission speed:** 10/100 Mbps (Auto Negotiation)

**Transmission media:** 10BASE-T (STP cable; Category 5)  
100BASE-TX (STP cable; Category 5e)

**Maximum segment length:** 100 meters

■ **10BASE-T1L**

**Communication standard:** IEEE 802.3cg

**Transmission speed:** 10 Mbps

**Transmission media:** CAT5 2-wire twisted-pair

**Maximum segment length:** 1000 meters (standard value)

## INSTALLATION

**Power input:** 24 V DC

100 - 240 V AC

**Operating temperature:** -10 to +55°C (14 to 131°F)

**Operating humidity:** 10 to 90 %RH (non-condensing)

**Ambience:** No corrosive gas or heavy dust;  
no strong electric/magnetic field;  
no direct effect of vibration or physical impact

**Mounting:** DIN rail

**Weight:** 100 g (0.22 lb)

## PERFORMANCE

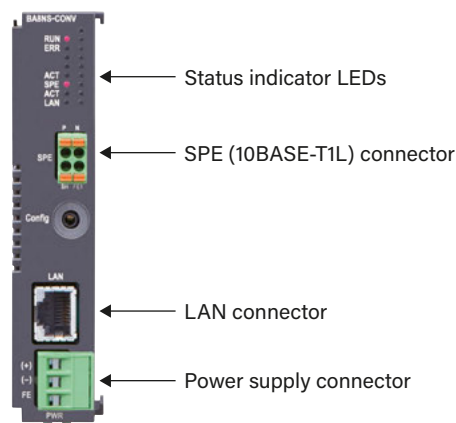
**Insulation resistance:** ≥ 100 MΩ with 500 V DC

**Dielectric strength:** 1500 V AC @ 1 minute

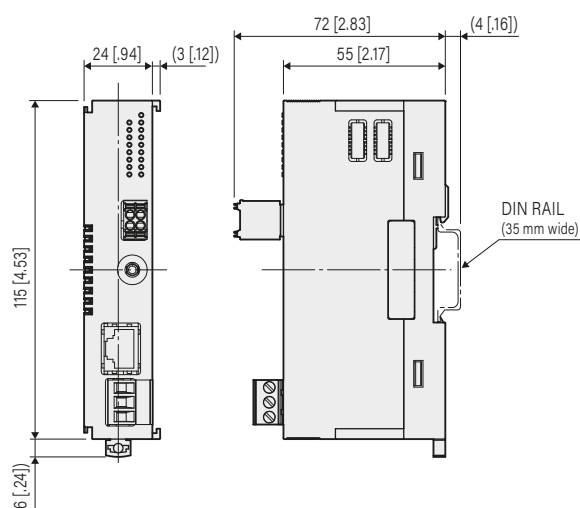
(LAN or SPE to power to FE)

500 V AC @ 1 minute (LAN to SPE)

## FRONT VIEW



## EXTERNAL DIMENSIONS unit: mm [inch]



MG CO., LTD.  
www.mgco.jp

Your local representative: