

Installation Guide

Uninterruptible Power Supply

RSB – Remote Signalling Box

SG Series CE & SG Series UL

SitePro CE & SitePro A UL

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Certified
Quality System

ISO 9001

Model: **RSB – Remote Signalling Box**
 For: SG Series 60 - 600 CE S1 & S2
 SG Series 10 - 750 UL S0 & S1 & S2
 SitePro 10 - 40 CE S7 & S8
 SitePro A 10 - 300 UL

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The illustrations and plans describing the equipment are intended as general reference only and are not necessarily complete in every detail.

The content of this publication may be subject to modification without prior notice.

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1 SAFETY RULES

With this document, **GE Digital Energy** gives to the user all the necessary information about the correct installation and connection with the UPS units.

Please carefully read this **Installation Guide** before installing or operating the equipment.

If any problems are encountered with the procedures contained in this **Installation Guide**, please contact the nearest **Service Centre** before you proceed.

All UPS installation, maintenance and service work should be performed by qualified service personnel only.

KNOWLEDGE and FULL compliance of the safety instructions and the warnings contained in this manual are

THE ONLY CONDITION

to avoid any dangerous situations during installation, operation, maintenance work, and to preserve the maximum reliability of the UPS system.



NOTE !

The installation and cabling of the option "*RSB – Remote Signalling Box*" must be performed by **QUALIFIED SERVICE PERSON**.

Please refer to the "*Safety Rules*" included in the "*User Manual*" of the UPS.

Please read carefully the UPS "*User Manual & Installation Guide*" before installing or operating the equipment.

If any problems are encountered with the description of this "*Installation Guide*", please contact the nearest *Service Centre* before proceeding.

Please for the installation and cabling of the "*RSB – Remote Signalling Box*" in *Computer Room* use only type DP (DP1, DP1-P or DP2, DP2-P) or equivalent cable.

GE Digital Energy refuses any responsibility in case of non-observance, unauthorised alterations or improper use of the delivered equipment.

2 PRELIMINARY

The purpose of this Document is, to explain in a step by step procedure how to install the optional "RSB - Remote Signalling Box".



NOTE!

The work to be done is reserved to Service engineers which have been previously trained on these UPS's, and therefore have thorough knowledge about the function and handling of this equipment.

IMPORTANT

- For the installation of the "APS - 24Vdc Auxiliary Power Supply" please refer to the "Installation Guide" included in to the KIT.
- Please for the installation and cabling of the "RSB - Remote Signalling Box" in Computer Room use only type DP (DP1, DP1-P or DP2, DP2-P) or equivalent cable.

Content of the RSB - Remote Signalling Box

ID 17442 for SG Series CE & UL (see Section 3.2 & 3.3)

- A 1 RSB - Remote Signalling Box
- B 1 terminal block XA female
- C 1 Set cables for connection APS 24Vdc
- D 1 APS - 24Vdc Auxiliary Power Supply
- E 1 Set screws
- F 1 Plug J2 Sub D - Male 25 pin

OPT_RSB Kit_17442_01

ID 17013 for SitePro CE S7 & S8 (see Section 3.4)

- A 1 APS - 24Vdc Auxiliary Power Supply
- B 1 Set screws
- C 1 Plug J2 Sub D - Male 25 pin
- D 1 RSB - Remote Signalling Box
- E 1 Set cables for connection APS 24Vdc
- F 1 Profile for APS 24Vdc


OPT_RSB Kit_17013_01

ID 17785 for SitePro CE S6 & SitePro A UL (see Section 3.5)

- A 1 RSB - Remote Signalling Box
- B 1 Plug J2 Sub D - Male 25 pin
- C 1 APS - 24Vdc Auxiliary Power Supply
- D 1 Profile for APS 24Vdc
- E 1 Set cables for connection APS 24Vdc
- F 1 terminal block XA female
- G 1 Installation Guide for APS - 24Vdc Auxiliary Power Supply

OPT_RSB Kit_01

3 INSTALLATION

	<p>NOTE !</p> <p>The installation and cabling of the option “RSB – Remote Signalling Box” must be performed by QUALIFIED SERVICE PERSON.</p> <p>Please refer to the “Safety Rules” included in the “User Manual” of the UPS.</p> <p>Please read carefully the UPS “User Manual & Installation Guide” before installing or operating the equipment.</p> <p>If any problems are encountered with the description of this “Installation Guide”, please contact the nearest <i>Service Centre</i> before proceeding.</p> <p>Please for the installation and cabling of the “RSB – Remote Signalling Box” in <i>Computer Room</i> use only type DP (DP1, DP1-P or DP2, DP2-P) or equivalent cable.</p>
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3.1 DESCRIPTION OF RSB - REMOTE SIGNALLING BOX

The optional *RSB - Remote Signalling Box* allows monitoring of the operation of the UPS, using the potential free contacts fitted on the “P4 - Customer Interface Board” of the UPS. It can be used by simply putting the box on a desktop or on a wall or, removing the box, it can be surface mounted.

The *Remote Panel* contains an internal buzzer and the following status indicators:

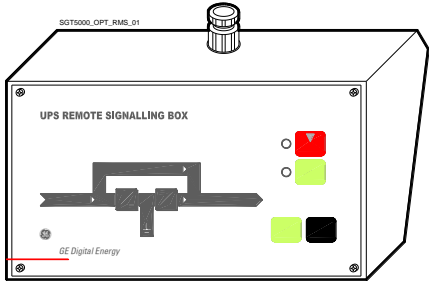

	<p>Mimic diagram With <i>LEDs</i> indicating the operation of <i>Rectifier</i> and <i>Inverter</i>, and the power source supplying the critical <i>Load</i>.</p> <p>Alarm Indicating a critical situation on the UPS (LED light and audible alarm).</p> <p>Stop Indicating the UPS is preparing to shut down in a short time.</p> <p>Mute Push button resets the <i>buzzer</i>.</p> <p>Test Push button checks all the <i>LEDs</i> and the <i>buzzer</i> of the remote panel.</p>
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Fig. 3.1-1 RSB – Remote Signalling Box

The cable connecting the *RSB* to the UPS cabinet must be min. 16 wires/0.25mm² (24 AWG - DP).

The **plug B** (only used with *IM0005 - Customer Interface Board*) is included in the delivery of the option *RSB* (cable connecting *UPS* with *RSB* not included).

Maximal allowable length: **300 m** (985 ft).

	<p>The alarms on free potential contacts can be connected on terminals <i>X1</i> instead <i>J2</i> (see correlation <i>X1 - J2</i> in User Manual of UPS - Section 9.1).</p>
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	<p>If the remote signal panel is plugged on connector <i>J2</i>, the terminal block <i>X1</i> cannot be used to drive an external alarms monitoring device, because it is supplied by the internal UPS low voltage power supply.</p>
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3.2 CONNECTION RSB TO UPS SG SERIES CE & UL WITH CUSTOMER INTERFACE IM0005 (ID 17442)

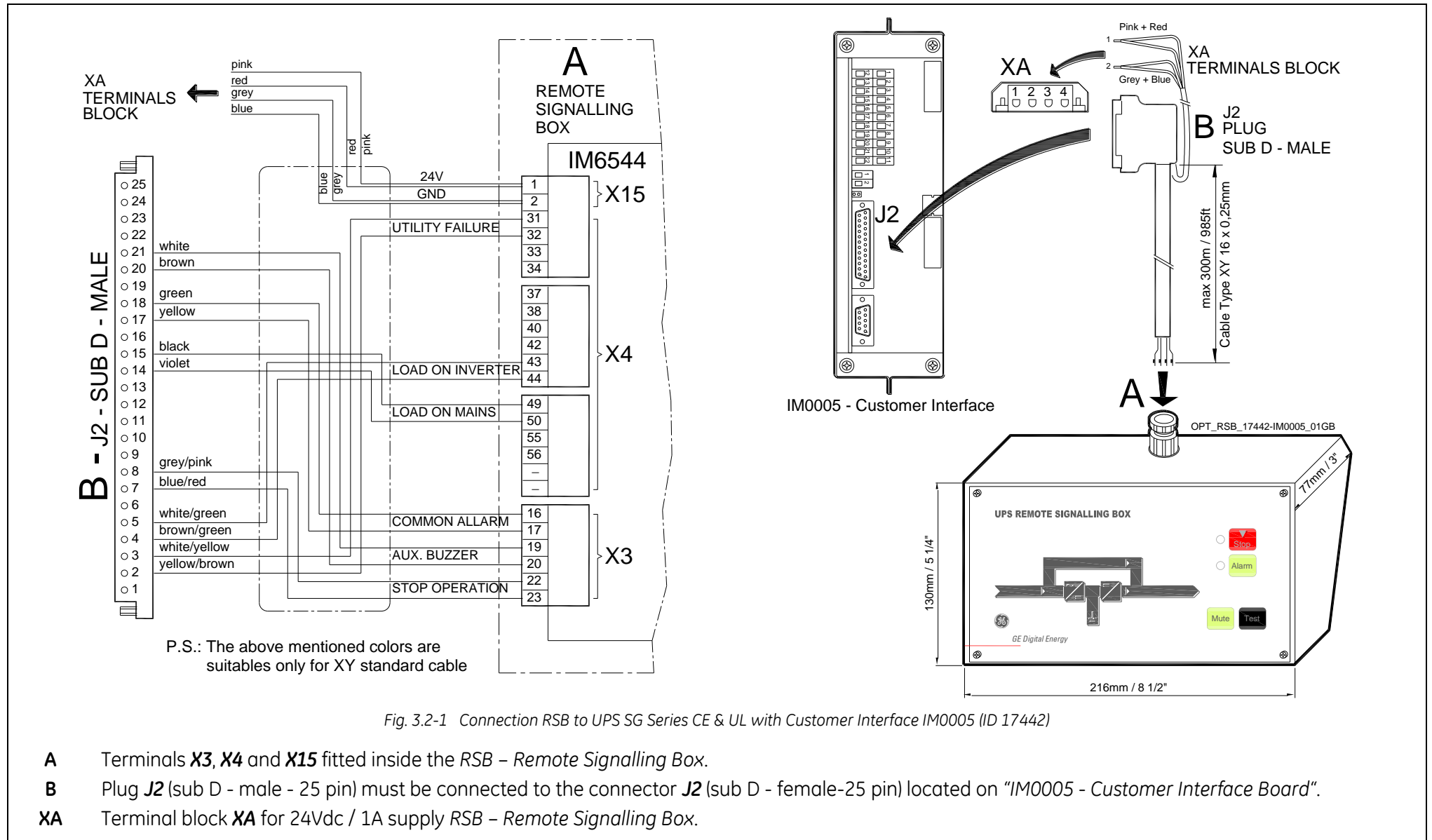


Fig. 3.2-1 Connection RSB to UPS SG Series CE & UL with Customer Interface IM0005 (ID 17442)

3.3 CONNECTION RSB TO UPS SG SERIES CE & UL WITH CUSTOMER INTERFACE IM0171 (ID 17442)

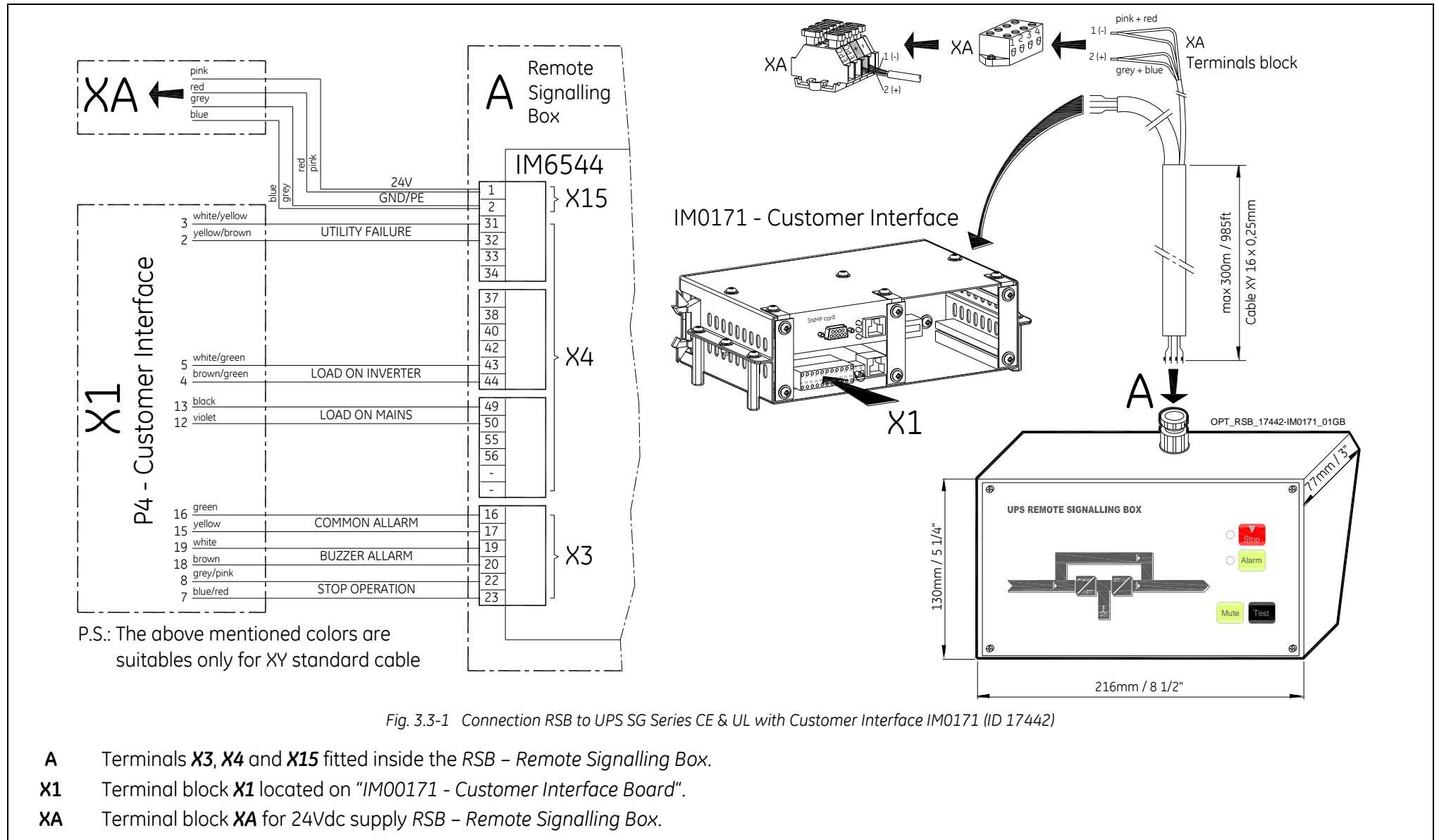


Fig. 3.3-1 Connection RSB to UPS SG Series CE & UL with Customer Interface IM0171 (ID 17442)

3.4 CONNECTION RSB TO UPS SITEPRO CE S7 & S8 WITH CUSTOMER INTERFACE IM0005 (ID 117875 & ID 17013)

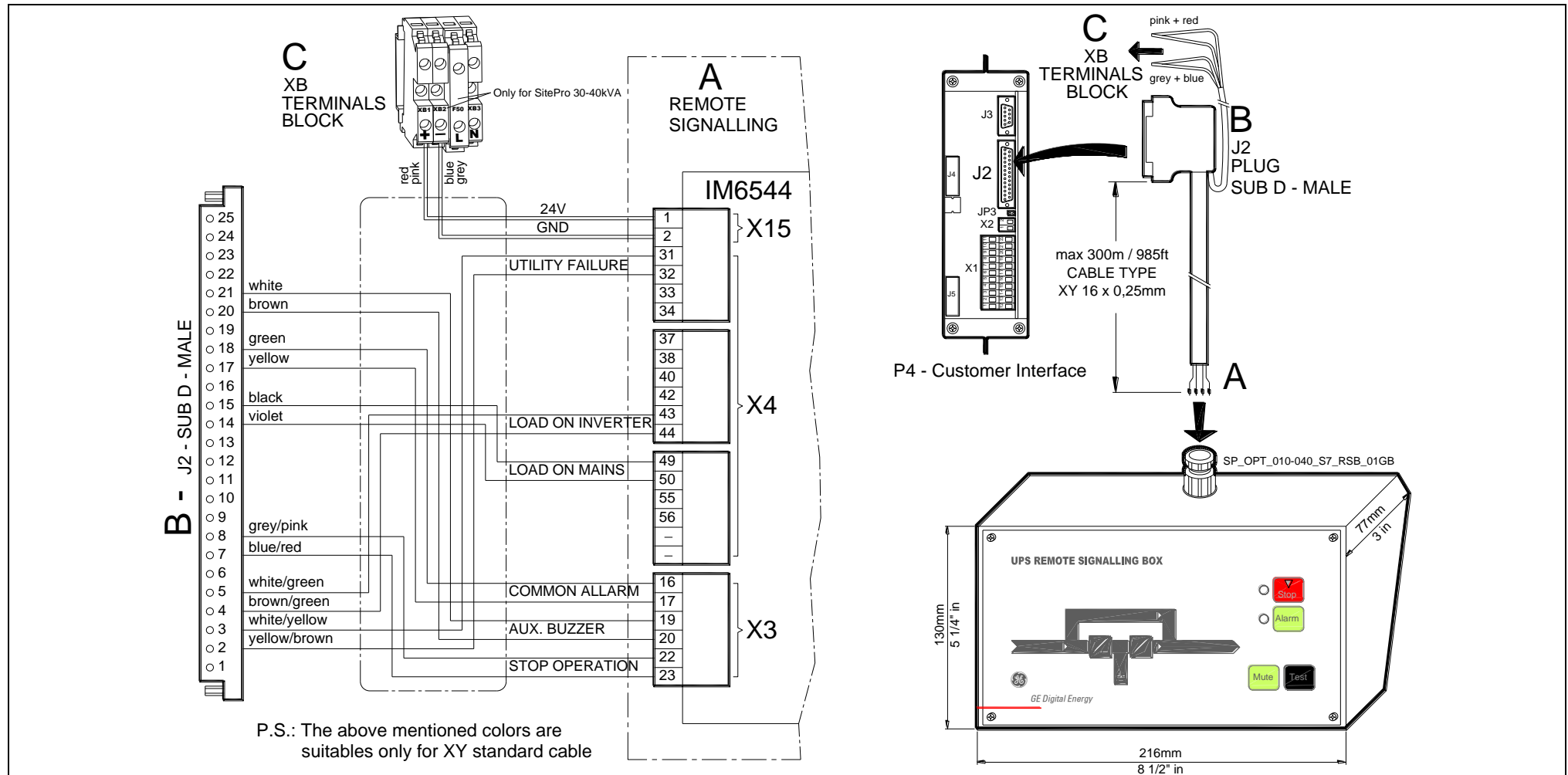


Fig. 3.4-1 Connection RSB to UPS SitePro CE S7 & S8 with Customer Interface IM0005 (ID 117875 & ID 17013)

- A** Terminals **X3**, **X4** and **X15** fitted inside the RSB – Remote Signalling Box.
- B** Plug **J2** (sub D - male - 25 pin) must be connected to the connector **J2** (sub D - female-25 pin) located on "P4 - Customer Interface Board".
- C** Terminal block **XA** for 24Vdc / 1A supply RSB – Remote Signalling Box.

3.5 CONNECTION RSB TO UPS SITEPRO CE S6 AND SITEPRO A UL WITH CUSTOMER INTERFACE IM0005 (ID 11785)

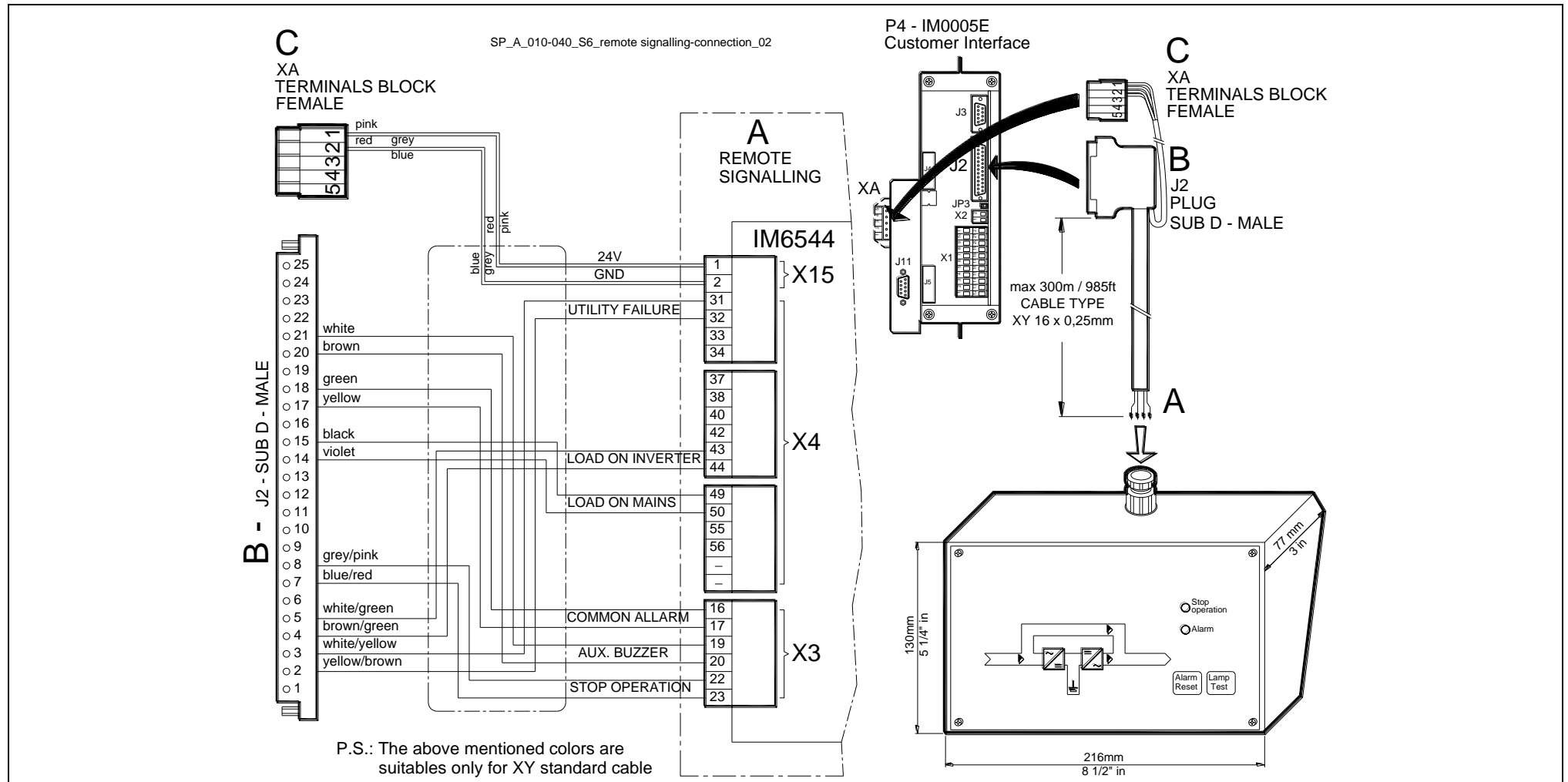


Fig. 3.5-1 Connection RSB to UPS SitePro A UL with Customer Interface IM0005 (ID 11785)

- A** Terminals **X3**, **X4** and **X15** fitted inside the RSB – Remote Signalling Box.
- B** Plug **J2** (sub D - male - 25 pin) must be connected to the connector **J2** (sub D - female-25 pin) located on “P4 - Customer Interface Board”.
- C** Terminal block **XA** for 24Vdc / 1A supply RSB – Remote Signalling Box.