

## BS6883 : 1999

Type SW2 (previously class B)  
Type SW4 (previously class D)

**Cable Designation:**

Cables shall be designated according to the type of outer sheath material used in their construction as follows:

Type SW2: cables with an outer sheath material conforming to BS7655-2.6:1993, type SW2, heavy duty enhanced oil-resisting, flame retardant with reduced halogen gas emission

Type SW4: cables with an outer sheath material conforming to BS7655-2.6:1993, type SW4, ordinary duty enhanced oil-resisting with low emission of smoke and gases when affected by fire.

**Inner Sheath:**

When the cable has an inner sheath it shall be either SW2, SW3, or SW4 conforming to BS7655-2.6:1993 and shall conform to the selection limitations specified below.

The inner sheath shall be applied by the extrusion process and cross-linked to form a compact and homogeneous layer.

**Material Selection:**

When an inner sheath is required, it shall be chosen by reference to the type of outer sheath specified for the particular cable, in accordance with the following list:

Outer Sheath Type:	Inner sheath permissible type:
SW2	SW2, SW3, SW4
SW3	SW3, SW4
SW4	SW3, SW4

## BS7655 : 1993

**Scope:**

This section specifies the physical properties of elastomeric sheathing compounds given in the table below. The relevant test methods for certification of conformity are given in BS6469 and BS6425. These compounds are for use with cables in accordance with BS6883 but may be used for other suitable applications as detailed in the cable specification.

This section is to be used in conjunction with BS7655:Part 0

**Definitions:**

For the purposes of this section of BS7655 the definitions given in BS1755: Part 1, BS1755: Part 2, BS3558, BS4727:

Part 2: Group 08 and BS7655: Part 0 apply, together with the following:

**Variation:**

The difference between the median value after ageing and the median value without ageing expressed as a percentage of the latter

**Median Value:**

When several test results have been obtained and ordered in an increasing or decreasing succession, the median is the middle value if the number of available values is odd and is the mean of the two middle values if the number is even.

### TYPES OF ELASTOMERIC COMPOUNDS FOR THE SHIPS WIRING AND OFFSHORE APPLICATIONS

Type	Max. material operating temp. <sup>0C</sup>	General application
SW1	85	Ordinary duty enhanced oil-resisting and flame retardant
SW2	85	Heavy duty enhanced oil-resisting, flame retardant with reduced halogen gas emission
SW3*	85	Ordinary duty oil-resisting with low emission of smoke & corrosive gases when affected by fire
SW4	85	Ordinary duty enhanced oil-resisting with low emission of smoke & gases when affected by fire

\* This compound is equivalent in all respects to compound LRS 1

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