

# 2-CORE XLPE,SWA,HFFR SHEATHED CABLES AS PER QCS 2014

2C X 70 Sq.mm CU/XLPE/SWA/HFFR

**International Designation:** CU/XLPE/SWA/HFFR

**Nexans Ref.:** 22070SXZHSH30BS0

2-CORE XLPE,SWA,HFFR SHEATHED CABLES AS PER QCS 2014

## DESCRIPTION

### Scope

This specification covers two core, XLPE insulated cables for use on the Qatar Power Systems ,Street lightning and Small wiring systems. These cables are complying with BS 6724 and QCS 2014 Standards .

### Design

#### 1. Conductor

Plain annealed high-conductivity Stranded Copper Class 2 conforming to BS EN 60228

#### 2. Insulation

XLPE insulation Type GP8 conforming to BS 7655-1

#### 3. Filling or Bedding

Extruded HFFR

#### 4. Armour

Single layer of Galvanised Steel Wires (GSAW)

#### 5. Outer Sheath

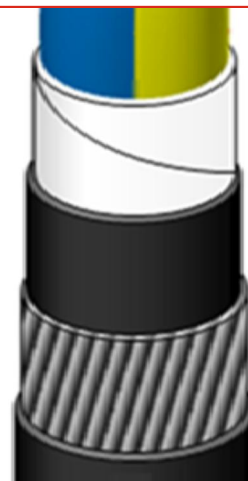
Halogen Free Flame Retardant (HFFR)

- Flame retardant : IEC60332-3-24 CAT C

- Colour : Black

### Marking

2 X 70 CU/XLPE/SWA/HFFR 600/1000 V BS 6724 MADE IN QATAR QICC-NEXANS  
Years Meters



## STANDARDS

**International**  
IEC 60332-3-24 Cat.C

**National** BS 6724



Conductor flexibility  
Stranded class 2



Halogen free  
Yes



Rated Voltage Uo/U (Um)  
0.6/1 kV



Max.conductor temp.in service  
90 °C



Bending factor when laying  
12 (xD)



Flame retardant  
Yes

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper
Conductor shape	Circular
Conductor flexibility	Stranded class 2
Armour type	Galvanized steel wires
Colour	Black
Core identification	Red,Black
Halogen free	Yes
Inner sheath	Halogen free flame retardant
Insulation	XLPE
Outer sheath	Halogen free flame retardant

### Dimensional characteristics

Number of cores	2
Conductor cross-section	70 mm <sup>2</sup>
Approximate weight	2688 kg/km
Nominal armour wire diameter	2 mm
Nominal insulation thickness	1.1 mm
Nominal outer diameter	33.5 mm

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV
Max. DC resistance of the conductor at 20°C	0.268 Ohm/km
Permissible current rating in open air	251 A
Permissible current rating when buried	188 A
Thermal soil resistivity dry zone	2.5 °K.m/W
Voltage drop, 3 conductors	0.6 V/A.km

### Usage characteristics

Max. conductor temperature in service	90 °C
Short-circuit max. conductor temperature	250 °C
Bending factor when laying	12 (xD)
Ambient air temperature	30 °C
Ambient ground temperature	20 °C
Laying depth, center of system	700 mm
Max. pulling force during laying	50 N/mm <sup>2</sup>
Flame retardant	Yes