

# 2XSE(F)YR2Y+GC

## 6.35/11(12)kV

acc. to BS 6622:2007 + NR/PS/ELP/00008

Three Core Armoured Cable.

### APPLICATIONS

- Laying in ground
- Laying in air
- Laying in ducts

### TEMPERATURE

Conductor	Continuous operation	90°C
	Short circuit (duration max 5 s)	250°C
Metallic screen	Short circuit (duration max 5 s)	350°C



### CONSTRUCTION

DESCRIPTION	UNIT	DETAILS <sup>1</sup>
Conductor	Material	- Copper
	Nominal cross sectional area	mm <sup>2</sup> 300
	Min. number of wires	No acc. to EN 60228
	Conductor diameter	mm acc. to EN 60228
Conductor screen <sup>2</sup>	Material	- semi-cond. polyethylene
	Minimum radial thickness	mm 0.3
Insulation <sup>2</sup>	Material	- XLPE
	Nominal / minimum at point radial thickness	mm 3.4 / 2.96
	Diameter over insulation	mm 27.9
Insulation screen <sup>2</sup>	Type	- STRIPPABLE
	Material	- semi-cond. polyethylene
	Minimum radial thickness	mm 0.5
Metallic screen	Wrapping under Metallic Screen – Material	- semi - cond. swelling tape
	Metallic screen - Material	- copper (wires and equalizing tape)
	Diameter over metallic screen	mm 31.6
	Cross sectional area for every core	mm <sup>2</sup> 50 (50 / 3 for each core)
	No. / Nominal dia. of copper wires	No. / mm 3x 32 / 0.8

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DESCRIPTION		UNIT	DETAILS <sup>1</sup>
Three-cores assembly with filler	Fillers material (central filler)	-	PVC
	Approximate diameter over stranded cores and filler	mm	68.1
Inner sheath	Material	-	PVC
	Approximate radial thickness	mm	1.8
	Diameter over sheath	mm	71.7
Armour	Material	-	Round FeZn wires
	Diameter of wires	mm	3.15
	Diameter over armour	mm	78.1
Outer sheath	Material	-	MDPE – colour BLACK
	Minimum average / minimum at point radial thickness	mm	3.1 / 2.5
	Graphite coating	mm	0.05
	Diameter over sheath - completed cable (D <sub>e</sub> )	mm	85
Weight of complete cable (approx.)		kg / km	17 320

## ELECTRICAL DATA at 50Hz

SHORT CIRCUIT CURRENTS			
Max Short Circuit Capacity	conductor :	90 → 250°C	kA / 1 s    42.9
	metallic screen:	→ 350°C	kA / 1 s    9.8
AMPACITY (In) <sup>3</sup>		BOTH-ENDS BONDING (BE)	
GROUND		A	482
AIR		A	599

## MECHANICAL DATA

Recommended min. bending radius during installation	m	$12 * D_e * 10^{-3}$
Recommended min. bending radius during installation for cables adjacent to joints or terminations	m	$10 * D_e * 10^{-3}$
Maximum Cable Pulling Force: <sup>4</sup>	kN	$50 * (N_o * \text{cross sectional conductor area}) * 10^{-3}$
Lowest recommended temperature during laying:	°C	≥ 0

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## DELIVERY DATA

Length per drum / Diameter (Type) of wooden drum	m / m / -	250 / 2.5 (25)
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- /1 - Diameters are calculated values and subject to manufacturing tolerances
- /2 - Triple extrusion processes, Dry curing and cooling.
- /3 - Current rating guideline (acc. to IEC 60502-2:2014)

### GROUND

Ground temperature	20°C
Laying depth	0.8 m
Ground thermal resistivity	1.5 K*m/W

### AIR (SHADED cables)

Air temperature	30°C
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- /4 - Cable pulling forces by its conductor

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