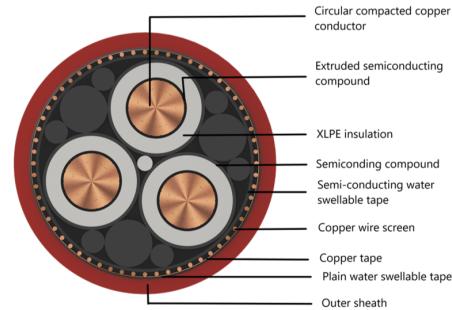


POLY CAB MV CU BS 7870-4-20 6.35/11 KV Medium Voltage Copper wire screened Cable, 6.35/11 (12) KV AC

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Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB MV CU BS 7870-4-20 6.35/11 KV compacted copper conductor, XLPE insulated, copper wire screened three core cable is designed for power networks, underground direct buried or in cable ducting.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 6.35/11 (12) kV

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

Bending Radius:

Fixed Installation: 15 x Overall diameter

CONSTRUCTION

- Conductor: Circular Compacted Copper conductor as per BS EN/IEC 60228, class 2
- Conductor Screen: Extruded Semi-conductive compound
- Insulation: XLPE as per BS 7870-1
- EPR can be provided on demand as per BS 7870-1
- Non-Metallic Insulation Screen: Extruded Semi-conductive compound (Bonded or Cold strippable)
- Inner covering: Semicon water swellable tape
- Collective Metallic Screen: Copper wire & Copper tape screen
- Separation tape: Plain water swellable tape
- Outer Sheath: Extruded medium density polyethylene or Low smoke zero halogen compound as per BS 7870-1, Colour: Red

Core identification

Black with white numbering

Test Voltage

25.5kV AC

Impulse Test Voltage

Peak 95kV AC

OUTSTANDING FEATURES

- Flame retardant
- High life
- UV resistant
- Oil resistant

STANDARD FOLLOWS

BS EN/IEC 60228

BS 7870-1

BS 7870-4-20

COMPLIANCE

Conductor resistance BS EN/IEC 60228

Insulation resistance BS 7870-4-20

Flame Retardant test BS EN/IEC 60332-1-2

Partial Discharge test BS 7870-4-20

Smoke Emission test BS EN/IEC 61034-2

OUR ACCREDITATIONS



**POLY CAB MV CU BS 7870-4-20 6.35/11 KV
Medium Voltage Copper wire screened Cable, 6.35/11 (12) KV
AC**

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WEIGHT & DIMENSION DATA :

Product Code	No. of Cores	Nominal Cross sectional Area	Nominal area of metallic screen	Overall diameter (Approx.)	Weight (Approx.)
		mm ²	mm ²	mm	Kg/Km
MVBS22CXUAPM003C070S	3	70	35	51.8	3950
MVBS22CXUAPM003C095S	3	95	35	55.5	4800
MVBS22CXUAPM003C120S	3	120	35	58.8	5650
MVBS22CXUAPM003C150S	3	150	35	62.4	6700
MVBS22CXUAPM003C185S	3	185	35	65.8	7800
MVBS22CXUAPM003C240S	3	240	35	71.1	9650
MVBS22CXUAPM003C300S	3	300	35	76.2	11700

Electrical Characteristics:

Nominal Cross sectional Area	Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Short circuit current rating of conductor	Short circuit current rating of metallic screen	Capacitance (Approx.)	Inductance (Approx.)	Reactance (Approx.)
mm ²	Ω/km	Ω/km	kA/s	kA/s	μF/km	mH/km	Ω/km
70	0.268	0.342	10.02	4.5	0.29	0.33	0.10
95	0.193	0.247	13.59	4.5	0.32	0.32	0.10
120	0.153	0.196	17.17	4.5	0.35	0.30	0.09
150	0.124	0.159	21.46	4.5	0.38	0.29	0.09
185	0.0991	0.127	26.47	4.5	0.41	0.29	0.09
240	0.0754	0.098	34.34	4.5	0.46	0.27	0.09
300	0.0601	0.078	42.93	4.5	0.51	0.27	0.08

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Current Carrying Capacity

No. of core	Nominal Cross-sectional area mm ²	Continues current capacity		
		In ground at 20°C	In a buried duct	In air
3	70	221	193	253
3	95	262	231	304
3	120	298	264	351
3	150	334	297	398
3	185	377	336	455
3	240	434	390	531
3	300	489	441	606

Maximum conductor temperature	90°C
Ambient air temperature	30°C
Ground temperature	20°C
Depth of laying	0.8 m
Thermal resistivity of soil	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Note: The above table in accordance with IEC 60502-2

De-rating factor

Current rating de-rating factors for other than 30°C ambient air temperature.

Air Temperature	20	25	35	40	45	50	55	60
De-rating factor	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Current rating de-rating factors for other than 20°C ground temperature.

Ground Temperature	10	15	25	30	35	40	45	50
De-rating factor	1.07	1.04	0.96	0.93	0.89	0.85	0.8	0.76