

# Medium voltage cable

## Cu/XLPE/CTS/(SWA/AWA)/PVC



**Application:** For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy-duty mechanical load.

### Construction and technical data:

<b>Standard:</b>	BS 6622
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 2 = stranded
<b>Insulation:</b>	XLPE
<b>Electrical field control:</b>	inner and outer semiconducting layer (triple extrusion)
<b>Material inner sheath:</b>	PVC
<b>Screen:</b>	copper wire or tape on each core
<b>Armour:</b>	round steel wire, galvanized
<b>Sheathing material:</b>	PVC
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-30 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	5 - 70 °C
<b>Bending radius, fixed installation:</b>	15 x Ø
<b>Bending radius, moving application:</b>	15 x Ø
<b>Partial discharge:</b>	10 pC



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

**BS 6622 3.8/6 kV****Nominal voltage U<sub>o</sub>:** 3.8 kV**Nominal voltage U:** 6 kV

part no.	part name	Ø [mm]	Cu [kg/km]	G [kg]
013580	AWA 01X150 RM RD	36	1723	1825
012759	AWA 01X240 RM RD	37.6	2380	2900
013294	AWA 01X630 RM RD	53.3	6170	7150
014308	SWA 03X95 RM RD	56.5	3282	6900

**BS 6622 6.35/11 kV****Nominal voltage U<sub>o</sub>:** 6.35 kV**Nominal voltage U:** 11 kV

part no.	part name	Ø [mm]	Cu [kg/km]	G [kg]
012975	AWA 01X70 RM RD	30.5	680	1540
014365	AWA 01X240 RM RD	40.8	2450	3640
014575	AWA 01X300 RM RD	40.7	3163	4035
012650	AWA 01X400 RM RD	47.5	3840	5480
013125	SWA 03X25 RM RD	48.9	750	4300
013006	SWA 03X35 RM RD	51.1	1020	4600
013009	SWA 03X50 RM RD	53.6	1440	5400
012786	SWA 03X70 RM RD	58.5	2247	6300
012636	SWA 03X70 RM BK	58.5	2247	6300
012696	SWA 03X95 RM RD	61.6	2994	7500
012760	SWA 03X120 RM RD	65.4	3540	8700
012727	SWA 03X150 RM RD	68.6	4520	9700
013007	SWA 03X185 RM RD	72.7	5646	11400
012697	SWA 03X240 RM RD	78.9	7140	14300
013296	SWA 03X95 RM BK	62.9	2994	8226
013297	SWA 03X185 RM BK	75.3	5646	13047
013010	SWA 03X240 RM BK	77	7140	13400
014255	SWA 03X300 RM RD	87	8970	16600

**BS 6622 8.7/15 kV****Nominal voltage U<sub>o</sub>:** 8.7 kV**Nominal voltage U:** 15 kV

part no.	part name	Ø [mm]	Cu [kg/km]	G [kg]
013519	AWA 01X150 RM RD	37.7	1723	2590
014595	AWA 01X240 RM RD	45	2587	3950
013520	AWA 01X500 RM RD	58	5194	6550
013571	SWA 03X70 RM RD	62.9	2247	7100
013702	SWA 03X95 RM RD	66	2994	8600
013805	SWA 03X120 RM RD	70.6	3483	8847
013806	SWA 03X150 RM RD	73.6	4248	10282
013807	SWA 03X185 RM RD	79.4	5280	12202
013808	SWA 03X240 RM RD	84.7	6916	14482
013809	SWA 03X300 RM RD	90.1	8595	16804

**BS 6622 12.7/22 kV****Nominal voltage U<sub>o</sub>:** 12.7 kV**Nominal voltage U:** 22 kV

part no.	part name	Ø [mm]	Cu [kg/km]	G [kg]
015113	AWA 01X50 RM RD	33	540	1560
014508	AWA 01X70 RM RD	35.3	854	1900
014509	AWA 01X120 RM RD	38.7	1334	2600
013233	AWA 01X300 RM RD	48.3	2990	4900
012826	SWA 03X50 RM RD	63.8	1440	6800
012815	SWA 03X95 RM RD	72.3	2994	9100
013310	SWA 03X120 RM RD	77.1	3540	11000
013093	SWA 03X150 RM RD	80.3	4320	12100
014599	SWA 03X185 RM RD	84.7	5646	13800
013234	SWA 03X240 RM RD	89.9	7140	16100
013235	SWA 03X300 RM RD	95.2	8970	18400

**BS 6622 19/33 kV****Nominal voltage U<sub>o</sub>:** 19 kV**Nominal voltage U:** 33 kV

part no.	part name	Ø [mm]	Al [kg/km]	Cu [kg/km]	G [kg]
014324	AWA 01X95 RM RD	23.3		1094	2700
013646	AWA 01X185 RM RD	51.5		1920	4000
012827	AWA 01X185 RM BK	44.2		1920	4000
013014	AWA 01X185 RM (AK) BK	49.3	608	1920	4000
012828	AWA 01X240 RM BK	51.7		2587	4700
013324	AWA 01X400 RM RD	57.3		4234	6400
012973	AWA 01X630 RM BK	65	827	6170	9150
013266	SWA 03X240 RM RD	97		7140	17100
013963	SWA 03X35 RM BK	75		1554	6300
014466	SWA 03X50 RM BK	73.1		1671	8310
013205	SWA 03X95 RM BK	94		2994	12800
013206	SWA 03X120 RM BK	97		3540	14050
013311	SWA 03X185 RM RD	105		5646	17100
013298	SWA 03X185 RM BK	97.3		5646	17659
013008	SWA 03X240 RM BK	97		7140	17100
012638	SWA 03X300 RM BK	109		8665	21100

Ø	outer diameter approx.
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000