

BS6622 Single Core Mains Cable 6.35/11kV - CU, XLPE, AWA, PVC - 50mm2 to 630mm2



Description

BS6622 cables are armoured power cables designed for medium voltage fixed installations, such as power networks and industrial installations, including those in power supply stations, indoors, outdoors, underground, and in cable ducts. These single core cables have copper conductors with cross-linked polyethylene (XLPE) insulation various screen options, water blocking options, Aluminium wire armour and PVC bedding and outer sheath.

BS6622 cables are suitable for Internal use in buildings, power stations, or switchboards and are often run in cable tray for industrial applications. They can be directly buried in the ground or in cable ducts or outdoors where they are exposed to the elements. Though the red outer sheath may be prone to fading through exposure to UV rays.

Key Features

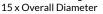


Voltage Rating

6.35/11kV Tested To Voltage And Duration of BS 6622



Minimum Bending Radius





Flame Retardancy BS EN 60332-1-2



Temperature Limits

Maximum operating temp: 90°C Initial temperature at S.C.C for screen: 80°C Maximum temp during short circuit: 250°C

Core Colours

Sheath Colour: Red or Black

Single Core

Standards

- BS6622
- IEC 60502-2
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228

Construction

- Conductor: Class 2 stranded copper conductor
- Insulation: Cross Linked polyethylene (XLPE)
- Insulation Screen: Strippable Extruded Semi Conductor
- Bedding: Polyvinyl Chloride (PVC)
- Metallic Screen: Individual or overall copper tape screen
- Separator: Copper Tape with 10% overlap
- Armour: Aluminium Wire Armour (AWA)
- Outer Sheath: Polyvinyl Chloride (PVC)

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



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Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

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BS6622 Single Core Mains Cable 6.35/11kV - CU, XLPE, AWA, PVC - 50mm² to 630mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Trefoil Cleat	Nylon Cleat Size	
10001	50	1	19/1.78	28.7	1200	TASB04	12	
10002	70	1	19/2.14	30.5	1461	TASB05	14	
10003	95	1	19/2.52	32.2	1761	TASB06	14	
10004	120	1	37/2.03	33.8	2049	TASB07	14	
10005	150	1	37/2.25	36.2	2451	TASB08	16	
10006	185	1	37/2.52	37.9	2848	TASB09	16	
10007	240	1	61/2.25	40.4	3470	TASB11	16	
10008	300	1	61/2.52	42.6	4103	TASB12	18	
10009	400	1	61/2.85	46.1	4995	TASB15	18	
10010	500	1	61/3.20	50	6320	TASB17	20	
10011	630	1	127/2.52	54	7840	TASB19	TC9	



















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11KV SINGLE CORE ELECTRICAL CHARACTERISTICS

CONDUCTOR N	MAX DC RESISTANCE AT 20°C	CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50hz	CAPACITANCE	CHARGING CURRENT	DIELECTRIC LOSSES	RESISTANCE AT 50HZ	CONDUCTOR S.C.C FOR 1 SEC	SCREEN S.C.C FOR 1 SEC	CURRENT RATING		
									LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR
MM ²	(Ω/km)	(Ω/km)	mf/km	(A/Km)	(W/Km)	(Ω/km)	(KA)	(KA)	AMPS	AMPS	AMPS
70	0.268	0.342	0.303	0.605	15.35	0.127	10.01	0.3	277	227	313
95	0.193	0.247	0.332	0.662	16.81	0.122	13.585	0.3	329	277	376
120	0.153	0.196	0.362	0.723	18.37	0.119	17.16	0.3	370	308	430
150	0.124	0.159	0.397	0.793	20.15	0.115	21.45	0.4	412	345	484
185	0.0991	0.128	0.43	0.859	21.81	0.111	26.455	0.4	460	390	546
240	0.0754	0.098	0.483	0.964	24.47	0.107	34.32	0.4	520	451	629
300	0.0601	0.078	0.535	1.068	27.13	0.103	42.9	0.5	571	507	708
400	0.047	0.062	0.592	1.181	30	0.101	57.2	0.5	609	564	777
500	0.0366	0.049	0.666	33.76	33.76	0.097	71.5	0.6	661	631	863
630	0.0283	0.039	0.76	1.516	38.51	0.095	90.09	0.6	707	698	945
800	0.0221	0.032	0.849	1.694	43.03	0.092	114.4	0.7	750	764	1032

Electrical Data:
Maximum conductor operating temperature:
Maximum screen operating temperature:
Maximum conductor temperature during S.C: 90°C 80°C 250°C

Laying conditions at trefoil formation are as below: Soil thermal resistivity: Burial depth: Ground temperature: Air temperature: Frequency:

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

















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