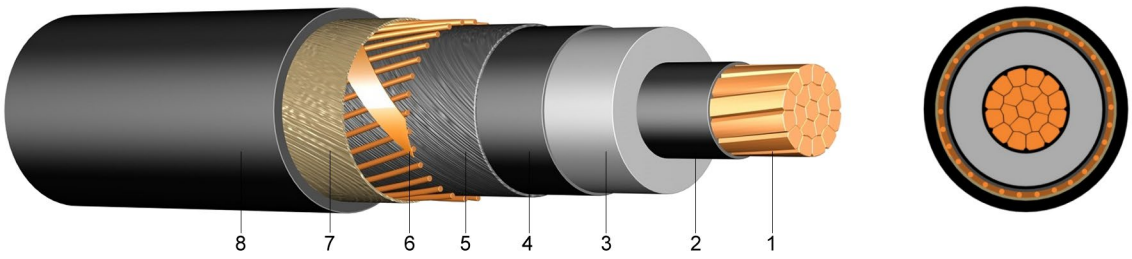
2XS(F)H B2$_{ca}$

Medium voltage cable, 12/20 kV
+90 °C service temperature, longitudinally watertight, low smoke, zero halogen, fire retardant, UV resistant
adapted to DIN VDE 0276-620 and IEC 60502-2

Application

Zero halogen medium voltage cable with improved fire characteristics for power stations, industrial applications and distribution networks. It is suitable for installation in tunnels and underground transportation systems as well as in buildings with increased fire protection requirements. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. This cable is longitudinally water tight preventing water propagation along the cable. For fixed installation indoors and outdoors, in ground without additional protection if no posterior mechanical damage is to be expected.
To simplify laying, these cables can also be supplied stranded.

Construction



1.	Conductor:	Copper conductor, bare, stranded (class 2)
2.	Inner semi-conductive layer:	Extruded semi-conductive material
3.	Insulation:	XLPE (cross-linked polyethylene)
4.	Outer semi-conductive layer:	Extruded semi-conductive material
5.	Separator under screen:	Semi-conductive swellable tape
6.	Screen:	Copper wires with helix copper tape
7.	Separator over screen:	Swellable tape
8.	Outer sheath:	Halogen free, black

Technical information

Rated voltage	U_0/U	12/20 kV
Max. permitted operating voltage	U_{max} AC	24 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Min. temperature during installation		-5 °C
Min. bending radius mm	fixed installation	15 x outer diameter in mm
Max. tensile load on the conductor		50 N / mm²

Safety parameters

Reaction to fire	single cable	EN 50399 B2$_{ca}$ – s1b, d1, a1

Additional parameters

Longitudinally water tight
UV- and ozone resistant

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N° of cores and cross section mm²	Insulation thickness approx. mm	Outer diameter approx. mm	Current carrying capacity in ground [1] A	Current carrying capacity in air [2] A	Weight approx. kg/km
1 x 50 rm/16	5,5	38	222	239	2400
1 x 70 rm/16	5,5	41	271	297	2420
1 x 95 rm/16	5,5	41	323	361	2665
1 x 120 rm/16	5,5	43	367	416	2860
1 x 150 rm/25	5,5	45	409	470	3300
1 x 185 rm/25	5,5	46	461	538	3660
1 x 240 rm/25	5,5	48	532	634	4130
1 x 300 rm/25	5,5	50	599	724	4835
1 x 400 rm/35	5,5		671	829	

Current carrying capacity: closed trefoil formation
[1] Ground temperature 20 °C; laying depth 0,7 m; soil thermal resistivity 1,0 Km/W (desiccated soil 2,5 Km/W); load factor 0,7
[2] Air temperature 30 °C; load factor 1,0

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.

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