ttcables
ELECTRIC CABLE WORKS



N2XS(F)2Y 6/10 (12) kV

Medium-voltage, single-core power cable with copper conductor, XLPE insulation, copper wire screen, longitudinal water blocking and PE outer sheath.

APPLICATION

Medium-voltage power cable for fixed installation in distribution networks, industrial installations and power generation facilities. Suitable for indoor and outdoor installation, in cable ducts, on cable trays and directly in the ground. Longitudinal water-blocking layers provide enhanced protection against moisture ingress.

CONSTRUCTION

Conductor: Class 2 stranded copper conductor
Conductor screen: Semiconductive compound
Insulation: Cross-linked polyethylene (XLPE), DIX8
Insulation screen: Semiconductive compound
Longitudinal water blocking: Semiconductive water-swellable tape
Metallic screen: Copper wires with counter-helically applied copper tape
Longitudinal water blocking: Water-swellable tape
Outer sheath: Polyethylene (PE), DMP2

Outer Sheath Colour:
● Black
Other colours available on request

TECHNICAL CHARACTERISTICS

Longitudinal water tightness: Yes
UV resistance: Yes
Minimum installation temperature: –20 °C
Maximum conductor operating temperature: 90 °C
Maximum conductor short-circuit temperature: 250 °C (max. 5 s)
Minimum bending radius: 15 × D (cable outer diameter)

STANDARD

HD 620 S3
DIN VDE 0276-620

COMPLIANCE

REACH COMPLIANT · COMPLIANT · COMPLIANT
RoHS compliant

NOMINAL CROSS SECTION OF CONDUCTOR	NOMINAL CROSS SECTION OF METALLIC SCREEN	CONDUCTOR MAX. DC RESISTANCE AT 20°C	NOMINAL INSULATION THICKNESS	MINIMUM SHEATH THICKNESS	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm²	mm²	Ω/km	mm	mm	mm	kg/km
25	16	0,727	3,4	2,1	25,0	695
35	16	0,524	3,4	2,1	26,0	800
50	16	0,387	3,4	2,1	27,5	930
70	16	0,268	3,4	2,1	29,0	1160
95	16	0,193	3,4	2,1	30,5	1420
120	16	0,153	3,4	2,1	32,0	1660
150	25	0,124	3,4	2,1	33,5	2010
185	25	0,0991	3,4	2,1	35,0	2360
240	25	0,0754	3,4	2,1	37,5	2870
300	25	0,0601	3,4	2,1	39,5	3445
400	35	0,0470	3,4	2,1	43,0	4420
500	35	0,0366	3,4	2,1	46,0	5465
630	35	0,0283	3,4	2,1	50,0	6915
800	50	0,0221	3,4	2,4	54,5	8675
1000	50	0,0176	3,4	2,4	58,5	10380