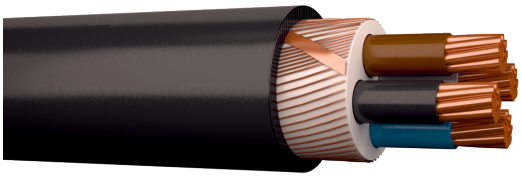
Draka

A brand of the Prysmian Group

Power Cables 1kV

FXQJ Pure 0,6/1 kV



Application

Halogen free, flame retardant and self-extinguishing in the event of fire. Smoke in the event of fire is minimal, transparent and not harmful to electronic equipment. These cables have stranded copper conductors for open fixed installation, indoors, outdoors, in pipes, ground or water. Suitable for switchgear and potentially explosive areas. Can be plowed down when care is taken. The concentric screen means increased personal safety for both the installer and the installation owners. At EMC-requirements is FXQJ-EMC suitabel.

Alternative Product Name	Approval	Environmental
N1XC7Z1-R	CE	Enviromantal Declaration - FXQJ Pure

Standard

SS 424 14 18	Construction standard 0,6/1 kV
CENELEC HD 603 Part 3 Section L	Harmonized Construction Standard/ testing standard
CENELEC HD 604	Halogen free material
SS-EN 60754-1, -2	Corrosive gases
SS-EN 61034-1, -2	Smoke density
EN 50575:2014	Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

Construction

Cable Shape	Round
Conductors	Stranded, round and annealed copper acc. to IEC 60228 class 2
Conductor Insulation	XLPE
Filler	Halogen free, extruded
Marking of cores	3-core: brown, black, grey 4-core: brown, black, grey, blue
Shield / Screen	Annealed copper wire with a counter helix of copper tape
Outer Sheath	Halogen free polymer, black
Example of marking on sheath	DRAKA FXQJ Pure 0.6/1kV 4X6/6mm2 MCMK-HF D D-s2d2a2 "Date", metre marked

Temperature

Maximum operating Temperature	90 °C
Temparatures at installation [°C]	Lowest cable temperature during installation -20 °C, below 0 °C special precaution shall be taken.

Features

CPR Performance class	Dca-s2d2a2 DOP no. 1001413
Bending radius	When fixed: 8 x D When installing: 12 x D When plowing: 8 x D
RoHS declaration	Meets the requirements of RoHS

Conductors and screen area [mm2]	Diameter over sheath [mm]	Cable weight [kg/km]	Standard delivery length [m]	EAN/GTIN number	Max current load in air [A]
3x2,5/2,5	12,9	250	500	6430010758174	32
3x6/6	15,7	430	500	6430010758181	54
3x10/10	18,2	645	500	6430010758150	75
3x16/16	20,7	930	500	6430010758167	100
4x2,5/2,5	13,7	285	500	6430010758211	42
4x6/6	16,9	505	500	6430010758228	54
4x10/10	19,7	760	500	6430010758198	75
4x16/16	22,3	1100	500	6430010758204	100

Number of conductors and cross-section [mm2]	Current carrying capacity in ground at conductortemp 65°C A	Current carrying capacity in air at conductortemp 65°C A	Current carrying capacity in air at conductortemp 90°C A	Max short circuit current in conductor for 1 sec.at 90°C starting temp of conductor, kA
3x2,5/2,5	34	26	32	0,36
3x4/4	45	36	44	0,57
3x6/6	57	47	58	0,86
3x10/10	78	65	80	1,43
3x16/16	100	86	105	2,29
4x2,5/2,5	34	26	32	0,36
4x6/6	57	47	58	0,86
4x10/10	78	65	80	1,43
4x16/16	100	86	105	2,29
Conditions – Max conductortemperature 90°C – groundtemperature 15°C –airtemperature 20°C –Ground resistivity of soil 1,0°K*m/W - Laying depth 0,65m –Frequency 50Hz				