

## XD1C1

DIN: A-DQ(ZN)2Y(SR)2Y

## XF1C1

DIN: A-DF(ZN)2Y(SR)2Y

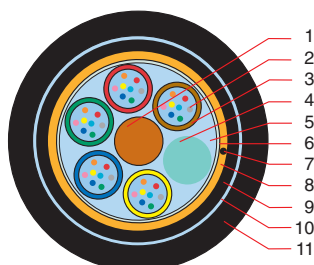
1/2



### Stranded, multitube, corrugated steel tape armour fibre optic cable

#### Applications

Outdoor fibre optic cable for ducts, trays and direct burial applications



#### Design

1. FRP – central element
2. optical fibres
3. jelly filled tube(s)
4. filling element(s)
5. swellable elements or jelly
6. plastic tape
7. ripcord (optional)
8. tensile strength elements
9. PE inner sheath
10. corrugated steel tape
11. PE outer sheath

#### Product description

Structure designed to fit up to 24 tubes stranded around a central strength element. Depending on the fibres/tubes count, tube(s) may be replaced by filling element(s). Each jelly filled tube may include up to 12 optical fibres.

Longitudinal water-tightness is ensured by swellable elements (XD1C1) or by filling compound (jelly) (XF1C1).

Tensile strength elements are dimensioned in order to meet the tensile requirements. The steel armour, embedded between the black inner and outer PE sheath, provides the cable with a very efficient rodent protection and an excellent resistance to compression, feature required for direct burial.



# XD1C1

# XF1C1

## Technical data

<b>XD1C1 (A-DQ(ZN)2Y(SR)2Y) / XF1C1 (A-DF(ZN)2Y(SR)2Y)</b>													
Fibre count (*)	24	36	12	24	36	48	60	72	96	120	144	192	288
Number of tubes	4	6	1	2	3	4	5	6	8	10	12	16	24
Number of fibres per tube	6	6	12	12	12	12	12	12	12	12	12	12	12
Number of fillers (dummies)	1		4	3	2	1							
Tube outer diameter (mm)	2,1	2,1	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
Cable diameter (approx.) (mm)	14,0	14,5	14,5	14,5	14,5	14,5	14,5	15,0	16,5	17,5	19,0	19,0	22,0
Outer sheath thickness (mm)	1,5												
Linear weight (approx.) (kg per km)	180	185	185	185	185	185	185	195	230	270	315	305	395
Max. tensile strength (**)													
- short term (installation) (N)	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.900	4.100	5.000	4.900	6.300
- long term (operation) (N)	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.400	2.500	3.100	3.000	3.900
Calorific potential (MJ)	3	3,2	3,2	3,2	3,2	3,2	3,2	3,5	4,1	4,6	5,3	5,9	7,7
Manufacturing length (max.) (km)	4	4	4	4	4	4	4	4	4	4	4	4	4
Crush resistance (N/10cm)	3.000												
Bending radius (minimum)													
- under load	15 x cable diameter												
- without load	10 x cable diameter												
Temperature range													
- storage (°C)	- 40 to + 70												
- installation (°C)	- 5 to + 50												
- operation (°C)	- 30 to + 70												
Tested according to	IEC 60794-1												

(\*) other fibre counts are available on request

(\*\*) higher tensile strength is available on request

## Marking

"EUPEN + fibre count/fibre type + meter marking"