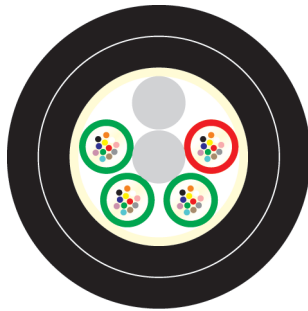


# Fibre Optic Outdoor Cable

acc. DIN VDE 0888

HELUCOM®

A-DF(ZN)2Y4Y



## Cable structure

Core type: Loose tube  
GRP support element  
Strain relief elements: Aramide  
Inner sheath material: PE  
Type of armouring: PA sheath  
Outer sheath material: PA  
Outer sheath colour: Black

## Temperature range

Laying, min.: -5°C  
Laying, max.: +50°C  
Operating, min.: -20°C  
Operating, max.: +60°C

## Other data

Corrosiveness acc. to EN50267-2-3  
Halogen-free acc. to 60754-2  
Longitudinally water-tight acc. to IEC 60794-1-2-F5  
Cable, laterally water-tight  
UV-resistant

Designation	No. of fibres	Fibre type	Fibre category	Number of fibres per core	Outer Ø app. mm	Max. tensile force N	Min. stat. bending radius mm	Caloric load app. MJ / m	Max. transverse pressure N / cm	Weight kg / km	Part no.
A-DF(ZN)2Y4Y	2	Multimode G50/125	OM2	2	10,0	2700	100,0	6,10	400	90,0	<b>80915</b>
A-DF(ZN)2Y4Y	2	Multimode G62.5/125	OM1	2	10,0	2700	100,0	6,10	400	90,0	<b>80927</b>
A-DF(ZN)2Y4Y	2	Single-mode E9/125	ITU-T G.652d	2	10,0	2700	100,0	6,10	400	90,0	<b>80945</b>
A-DF(ZN)2Y4Y	4	Multimode G50/125	OM2	4	10,0	2700	100,0	6,10	400	90,0	<b>80735</b>
A-DF(ZN)2Y4Y	4	Multimode G62.5/125	OM1	4	10,0	2700	100,0	6,10	400	90,0	<b>80928</b>
A-DF(ZN)2Y4Y	4	Single-mode E9/125	ITU-T G.652d	4	10,0	2700	100,0	6,10	400	90,0	<b>80895</b>
A-DF(ZN)2Y4Y	8	Multimode G50/125	OM2	8	10,0	2700	100,0	6,10	400	90,0	<b>80691</b>
A-DF(ZN)2Y4Y	8	Multimode G62.5/125	OM1	8	10,0	2700	100,0	6,10	400	90,0	<b>80809</b>
A-DF(ZN)2Y4Y	8	Single-mode E9/125	ITU-T G.652d	8	10,0	2700	100,0	6,10	400	90,0	<b>80118</b>
A-DF(ZN)2Y4Y	12	Multimode G50/125	OM2	12	10,0	2700	100,0	6,10	400	90,0	<b>80627</b>
A-DF(ZN)2Y4Y	12	Multimode G62.5/125	OM1	12	10,0	2700	100,0	6,10	400	90,0	<b>80931</b>
A-DF(ZN)2Y4Y	12	Single-mode E9/125	ITU-T G.652d	12	10,0	2700	100,0	6,10	400	90,0	<b>80947</b>
A-DF(ZN)2Y4Y	24	Multimode G50/125	OM2	12	10,0	2700	100,0	6,10	400	90,0	<b>80578</b>
A-DF(ZN)2Y4Y	24	Multimode G62.5/125	OM1	12	10,0	2700	100,0	6,10	400	90,0	<b>80576</b>
A-DF(ZN)2Y4Y	24	Single-mode E9/125	ITU-T G.652d	12	10,0	2700	100,0	6,10	400	90,0	<b>80577</b>
A-DF(ZN)2Y4Y	36	Multimode G50/125	OM2	12	10,0	2700	100,0	6,00	400	90,0	<b>80672</b>
A-DF(ZN)2Y4Y	36	Multimode G62.5/125	OM1	12	10,0	2700	100,0	6,00	400	90,0	<b>80935</b>
A-DF(ZN)2Y4Y	36	Single-mode E9/125	ITU-T G.652d	12	10,0	2700	100,0	6,00	400	90,0	<b>80950</b>
A-DF(ZN)2Y4Y	48	Multimode G50/125	OM2	12	10,0	2700	100,0	6,00	400	90,0	<b>80732</b>
A-DF(ZN)2Y4Y	48	Multimode G62.5/125	OM1	12	10,0	2700	100,0	6,00	400	90,0	<b>80936</b>
A-DF(ZN)2Y4Y	48	Single-mode E9/125	ITU-T G.652d	12	10,0	2700	100,0	6,00	400	90,0	<b>80951</b>
A-DF(ZN)2Y4Y	60	Multimode G50/125	OM2	12	10,0	2700	100,0	5,80	400	90,0	<b>80920</b>
A-DF(ZN)2Y4Y	60	Multimode G62.5/125	OM1	12	10,0	2700	100,0	5,80	400	90,0	<b>80938</b>
A-DF(ZN)2Y4Y	72	Multimode G50/125	OM2	12	10,5	2700	105,0	5,80	400	95,0	<b>80921</b>
A-DF(ZN)2Y4Y	72	Multimode G62.5/125	OM1	12	10,5	2700	105,0	5,80	400	95,0	<b>80939</b>
A-DF(ZN)2Y4Y	72	Single-mode E9/125	ITU-T G.652d	12	10,5	2700	105,0	5,80	400	95,0	<b>80954</b>
A-DF(ZN)2Y4Y	84	Multimode G50/125	OM2	12	11,0	3000	110,0	8,40	400	110,0	<b>80922</b>
A-DF(ZN)2Y4Y	84	Multimode G62.5/125	OM1	12	11,0	3000	110,0	8,40	400	110,0	<b>80940</b>
A-DF(ZN)2Y4Y	84	Single-mode E9/125	ITU-T G.652d	12	11,0	3000	110,0	8,40	400	110,0	<b>80955</b>
A-DF(ZN)2Y4Y	96	Multimode G50/125	OM2	12	11,5	3000	115,0	7,20	400	120,0	<b>80923</b>
A-DF(ZN)2Y4Y	96	Multimode G62.5/125	OM1	12	11,5	3000	115,0	7,20	400	120,0	<b>80941</b>
A-DF(ZN)2Y4Y	96	Single-mode E9/125	ITU-T G.652d	12	11,5	3000	115,0	7,20	400	120,0	<b>80956</b>
A-DF(ZN)2Y4Y	144	Multimode G50/125	OM2	12	14,5	3000	145,0	10,40	400	180,0	<b>80926</b>
A-DF(ZN)2Y4Y	144	Multimode G62.5/125	OM1	12	14,5	3000	145,0	10,40	400	180,0	<b>80944</b>
A-DF(ZN)2Y4Y	144	Single-mode E9/125	ITU-T G.652d	12	14,5	3000	145,0	10,40	400	180,0	<b>80959</b>

Dimensions and specifications may be changed without prior notice.

## Application

These HELUCOM® fibre-optic cables are characterized by a stranded construction with jelly filling. They are made waterproof in longitudinal direction by filling a jelly mass into the stranding cavities. Non-metallic tension elements and a second outer sheath made of polyamide (PA) ensure above average strain relief and rodent protection. This construction is particularly used in the area of telecommunication and long distance, but also in regular channels and tubes where rodent infestation is possible.