

Fibre Optic Outdoor Cable Hybrid

acc. DIN VDE 0888

HELUCOM®
A-DSQ(ZN)B2Y



Cable structure

Core type: Loose tube
GRP support element
Number of fibres per core: 4
Strain relief elements: Glass yarns
Type of armouring: Glass yarns
Outer sheath material: PE
Outer sheath colour: Black

Temperature range

Laying, min.: -10°C
Laying, max.: +60°C
Operating, min.: -25°C
Operating, max.: +60°C

Other data

Corrosiveness acc. to EN50267-2-3
Longitudinally water-tight acc. to IEC 60794-1-2-F5
UV-resistant

| Designation | No. of fibres | Fibre type | No. of copper cores | Dimensions of copper cores mm | 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-DSQ(ZN)B2Y | 4 | Multimode G50/125 | 2 | 1,2 | 12,0 | 2100 | 300 | 4,80 | 200 | 140,0 | 81209 |
| A-DSQ(ZN)B2Y | 4 | Multimode G62.5/125 | 2 | 1,2 | 12,0 | 2100 | 300 | 4,80 | 200 | 140,0 | 81255 |
| A-DSQ(ZN)B2Y | 4 | Single-mode E9/125 | 2 | 1,2 | 12,0 | 2100 | 300 | 4,80 | 200 | 140,0 | 81256 |
| A-DSQ(ZN)B2Y | 4 | Multimode G50/125 | 2 | 1,5 | 12,5 | 2300 | 320 | 4,80 | 200 | 160,0 | 82561 |
| A-DSQ(ZN)B2Y | 4 | Multimode G62.5/125 | 2 | 1,5 | 12,5 | 2300 | 320 | 4,80 | 200 | 160,0 | 81257 |
| A-DSQ(ZN)B2Y | 4 | Single-mode E9/125 | 2 | 1,5 | 12,5 | 2300 | 320 | 4,80 | 200 | 160,0 | 81258 |
| A-DSQ(ZN)B2Y | 4 | Multimode G50/125 | 4 | 1,5 | 17,0 | 2600 | 430 | 5,80 | 200 | 250,0 | 82786 |
| A-DSQ(ZN)B2Y | 4 | Multimode G62.5/125 | 4 | 1,5 | 17,0 | 2600 | 430 | 5,80 | 200 | 250,0 | 81259 |
| A-DSQ(ZN)B2Y | 4 | Single-mode E9/125 | 4 | 1,5 | 17,0 | 2600 | 430 | 5,80 | 200 | 250,0 | 81260 |

Dimensions and specifications may be changed without prior notice.

Application

These HELUCOM® fibre-optic cables are designed especially for use in fibre-optical temperature measurements, such as monitoring of dams. The extreme mechanical requirements in these areas are fulfilled by the specially designed cable construction. These lines are hybrid glass fibre lines with copper cores and a special PE outer sheath.

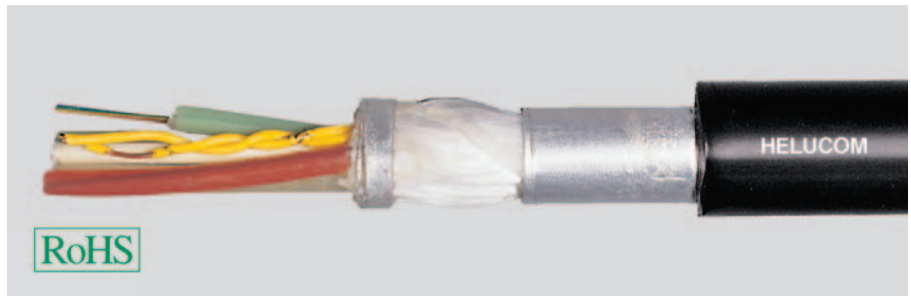
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Fibre Optic Outdoor Cable Hybrid

acc. DIN VDE 0888

HELUCOM®

A-DSF(L)(ZN)2Y



Cable structure

Core type: Loose tube
 GRP support element
 Number of fibres per core: 12
 Strain relief elements: Aramide
 Aluminium laminated sheath
 Outer sheath material: PE
 Outer sheath colour: Black

Temperature range

Laying, min.: -5°C
 Laying, max.: +50°C
 Operating, min.: -25°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 | No. of copper cores | Dimensions of copper cores mm | 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-DSF(L)(ZN)2Y 12 | 12 | Single-mode E9/125 | 2 | 0,6 | 12,0 | 2500 | 200 | 4,80 | 250 | 135,0 | 80495 |
| A-DSF(L)(ZN)2Y 12 | 12 | Single-mode E9/125 | 4 | 0,6 | 12,0 | 2500 | 200 | 4,80 | 250 | 140,0 | 80497 |
| A-DSF(L)(ZN)2Y 24 | 24 | Single-mode E9/125 | 2 | 0,6 | 13,1 | 2500 | 200 | 4,80 | 250 | 139,0 | 800753 |
| A-DSF(L)(ZN)2Y 24 | 24 | Single-mode E9/125 | 4 | 0,6 | 13,1 | 2500 | 200 | 4,80 | 250 | 144,0 | 801182 |
| A-DSF(L)(ZN)2Y 48 | 48 | Single-mode E9/125 | 2 | 0,6 | 13,1 | 2500 | 200 | 4,80 | 250 | 141,0 | 80501 |
| A-DSF(L)(ZN)2Y 48 | 48 | Single-mode E9/125 | 4 | 0,6 | 13,1 | 2500 | 200 | 4,80 | 250 | 146,0 | 80503 |
| A-DSF(L)(ZN)2Y 60 | 60 | Single-mode E9/125 | 2 | 0,6 | 14,1 | 2500 | 230 | 4,80 | 250 | 166,0 | 80504 |
| A-DSF(L)(ZN)2Y 60 | 60 | Single-mode E9/125 | 4 | 0,6 | 14,1 | 2500 | 230 | 4,80 | 250 | 171,0 | 80506 |
| A-DSF(L)(ZN)2Y 72 | 72 | Single-mode E9/125 | 2 | 0,6 | 14,8 | 2500 | 240 | 5,10 | 250 | 179,0 | 80507 |
| A-DSF(L)(ZN)2Y 72 | 72 | Single-mode E9/125 | 4 | 0,6 | 14,8 | 2500 | 240 | 5,10 | 250 | 184,0 | 80509 |
| A-DSF(L)(ZN)2Y 96 | 96 | Single-mode E9/125 | 2 | 0,6 | 16,6 | 3000 | 280 | 6,30 | 250 | 276,0 | 80510 |
| A-DSF(L)(ZN)2Y 96 | 96 | Single-mode E9/125 | 4 | 0,6 | 16,6 | 3000 | 280 | 6,30 | 250 | 281,0 | 80512 |
| A-DSF(L)(ZN)2Y 120 | 120 | Single-mode E9/125 | 2 | 0,6 | 18,4 | 3000 | 290 | 8,50 | 250 | 280,0 | 80513 |
| A-DSF(L)(ZN)2Y 120 | 120 | Single-mode E9/125 | 4 | 0,6 | 18,4 | 3000 | 290 | 8,50 | 250 | 285,0 | 80515 |
| A-DSF(L)(ZN)2Y 144 | 144 | Single-mode E9/125 | 2 | 0,6 | 20,3 | 3500 | 310 | 10,00 | 250 | 331,0 | 80516 |
| A-DSF(L)(ZN)2Y 144 | 144 | Single-mode E9/125 | 4 | 0,6 | 20,3 | 3500 | 310 | 10,00 | 250 | 336,0 | 80518 |

Dimensions and specifications may be changed without prior notice.

Application

These HELUCOM® outdoor cables are designed for use under extreme environmental conditions. With the double jelly filling and the Al/PE laminated sheath, they are water proof in longitudinal and transverse direction. The welded Al tape acts as an additional vapour barrier. These cables can be laid directly in the ground, in tubes and in ducts. They are mainly used in local and long-distance networks.