

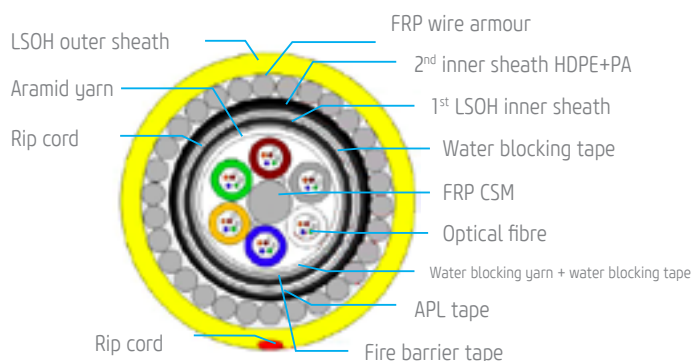
ChimeraX™ Oil & Gas Utility Fire Resistant Cable

24/48/72 Cores HPPA Oil Resistant FRP Armoured Cable



Hermesys ChimeraX™ oil and gas fire resistant cable is specially designed for harsh environments.

The multi-layer chemical resistant sheath Aluminum tape/HDPE/PA(Nylon) withstands aggressive constituents and fluids that might occur on Oil Gas chemical plants. The fire barrier tape with FR LSOH sheath provides the excellent fire retardant and also fire resistant performance. The none metallic FRP armour makes the cable suitable for installation under and above the ground without pipe protection.



Cross section of part number:
<not to scale>

Features and Benefits

High quality Fire barrier tape protect the cable core at high temperature environment.

Aluminum Tape provide the good performance of moisture resistant.

HPPA(HDPE+NYLON) sheath protect the cable in harsh chemical environment.

Fibre-reinforced plastic (FRP) wire armor(FWA) provide the excellent mechanic performance.

Standards

Reference

IEC 60794-1-1, IEC 60794-1-2-E3
IEC 60794-1-2-E4, IEC 60794-1-2-E6,
IEC 60794-1-2-E7, IEC 60794-1-2-E11
IEC 60794-1-2-F5B

Flame Resistance

IEC 61034-1, -2
IEC 60754-1,-2
IEC 60332-1
IEC 60332-3-22 (= Cat A)
IEC 60331-25

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Specifications

GENERAL SPECIFICATIONS

Environment	Indoor and Outdoor
Application	Airport, Tunnel, Oil, gas and other industrial lan.
Cable Type	Multi loose tube
Product Type	Oil & Gas plant
Flame Rating	IEC 60331-25, IEC 60332-3-22
Fibre Category	Full range of fibre
Drum Length	4,000m

TEMPERATURE RANGE

Storage	-40°C ~ 70°C
Operation	-40°C ~ 70°C
Installation	-10°C ~ 70°C

CABLE DESIGN

Fibre Type	Full Range of Fiber
Fibre Count	24/48/72
Fibre Color	EIA/TIA 598 standard
Tensile Strength Elements	2.6mm FRP non metallic strength member & Aramid yarn
Number of Loose Tube	6 (max 12 fibres per tube)
Number of Tube/Filler	2/4, 4/2, 6/0
Colour of Loose Tube	Blue, Orange, Green, Brown, Grey, White
Water Blocking-1	Water blocking yarn & Water blocking tape
Fire Resistant Elements	Fire barrier tape
1st Inner Jacket Material	LSOH/Black
Water Blocking - 2	Water blocking tape
Armouring - 1	APL tape
Ripcord -1	* 2
2nd Jacket Material (inner)	HDPE/Black
2nd Jacket Material (outer)	PA(Nylon)/Black
Armouring -2	1.0mm FRP wire
Ripcord - 2	* 1
Outer Jacket Material	LSOH/Black

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MECHANICAL CHARACTERISTICS CABLE

Nominal Outer Diameter (mm)	20.0 mm (24f, 48f, 72f)
Nominal Weight (kg/km)	580 kgs/24f, 650kgs/48f, 730kgs/72f
Max. Installation Strength	3.2 kN
Max. Operation Tension	2.2 kN
Crush	4,000N/100mm
Impact	30Nm, R=200mm, 3 impacts
Repeated Bending	20 * D, 100 cycles
Cable Bend	R=15*D, 5 turns, 3 cycles
Min. Bend Radius without Tension	15 * diameter
Min. Bend Radius Under Max. Tension	25 * diameter
Torsion	±180°, L=1m, 10 cycles
Water Penetration	No water leakage after 24hrs (sample=3m, water=1m)

Ordering information

Part Number	21XYY-2(042FR)2413
Sheath Marking	Hermesys ChimeraX Oil & Gas FRP Armoured Fibre Optic Cable 21XYY-2(042FR)2413 <Fibre Type> <XXXcore> WWYYYY XXXXM

Notes:

- 1) X = type of Fibre (0/G652D, 1/OM1, 2/OM2, 3/OM3, 4/OM4, 5/G655, 6/G657A1, 7/G657A2, 8/G657B1, 9/G657B2)
2) YY = Number of Core (2D/24 cores, 4H/48 cores, 7B/72 cores)

Shipping information

Packaging Method	Wooden drums with protection
Delivery Lengths	Standard delivery length is 4km with a tolerance of ± 5%