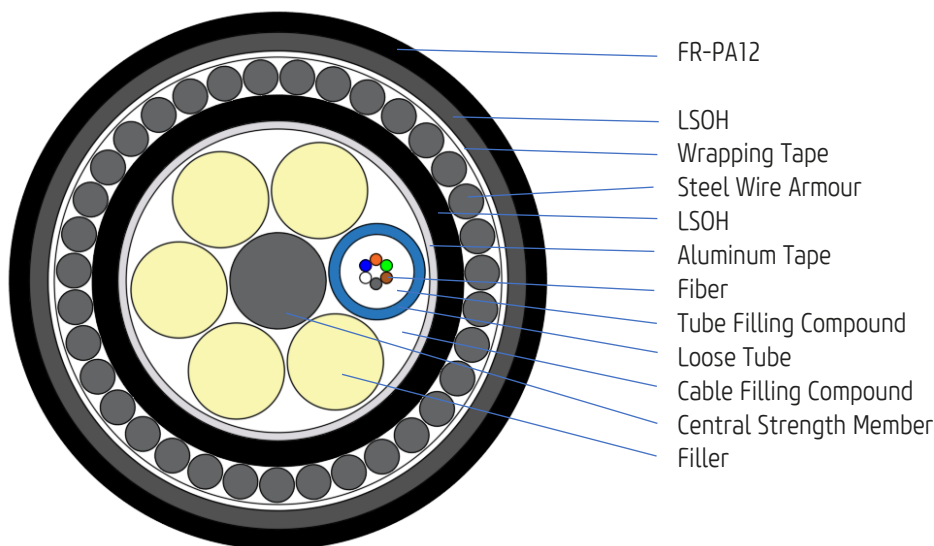




ChimeraX™ SWA Fire Retardant Nylon Jacket Cable 6F Direct Buried with Chemical Resistant Sheath



Flame Resistant

IEC 61034
IEC 60332-1
IEC 60754-1
UL94-V₀

Design Reference

IEC 60794
ITU-T

Application

Tunnel Environment
Oil & Gas Plant

Working Condition

Storage Temperature
-40°C ~ +70°C
Installation Temperature:
-10°C ~ +60°C
Operation Temperature
-20°C ~ +70°C

Min. Allowable Bending Radius

Static: > 15 D
Dynamic: > 30 D
D is the out diameter of the cable

The cable is especially designed for harsh environments. The Fire Retardant Nylon (Polyamide 12) sheath withstands aggressive constituents and fluids that might occur on (petro)chemical plants. The steel wire armour make the cable suitable for installation under and above ground.

- The FR-PA12 design provides excellent chemical and oil resistant protection.
- The steel wire armour provides rodent protection.

Technical data

Number of Fiber	6
Fiber	G652D
Loose Tube	PBT
Loose Tube Water Blocking Element	Jelly
Central Strength Member	Steel Wire (PE Coated)
Fiber Per Loose Tube	6F per tube
Cable Core Water Blocking Element	Cable Filling Compound
Cable Core Wrapping	APL Tape for enhanced chemical moisture proof
Inner Jacket	LSOH
Armouring	Galvanized Steel Wire Armour
2 nd Layer Jacket	LSOH
Oil & Chemical Resistant Sheath	FR-PA12 Nylon
Overall Diameter Nom.	mm 14.5
Weight approx	kg/km 380



Mechanic Characteristics

Test	Short Term	Long Term	Unit
Tensile	6000	3000	N
Crush	4000	2000	N/100mm
Temperature range	IEC 60794-1-2-F1	-40 ~ + 70°C	12 hours
*Values for multi-mode fibers, all optical measurements performed at 1300nm Values for single-mode fibers, all optical measurements performed at 1550nm			
Item	Test Method	Requirements	
Tension	IEC 60794-1-2-E1 Load: According to 3.5 Sample length: Not less than 50m. Duration time: 1min.	Additional attenuation: ≤0.1dB after test for SM fiber Additional attenuation: ≤0.4dB after test for MM fiber No damage to outer jacket and inner elements	
Crush	IEC 60794-1-2-E3 Load: According to 3.5 Duration of load: 1min	Additional attenuation: ≤0.1dB after test for SM fiber Additional attenuation: ≤0.4dB after test for MM fiber No damage to outer jacket and inner elements	
Impact	IEC 60794-1-2-E4 Radius: 300mm Impact energy: 10J Impact number: 1 Impact points: 3	Additional attenuation: ≤0.1dB for SM fiber Additional attenuation: ≤0.4dB after test for MM fiber No damage to outer jacket and inner elements	
Repeated bending	IEC 60794-1-2-E6 Mandrel radius: 25* ϕ Turns:25 Load:20N	Additional attenuation: ≤0.1dB for SM fiber Additional attenuation: ≤0.4dB after test for MM fiber No damage to outer jacket and inner elements	
Torsion	IEC 60794-1-21-E7 Cycles:10 Length under test: 1m Turns: ± 90°	Additional attenuation: ≤0.1dB for SM fiber Additional attenuation: ≤0.4dB after test for MM fiber No damage to outer jacket and inner elements	
Temperature cycling	IEC 60794-1-2-F1 Sample length: at least 1000m Temperature range: -40°C→+70°C Cycles: 2 Temperature cycling test dwell time: 12 hours	The change in attenuation coefficient shall be less than 0.1 dB/km for SM fiber less than 0.4dB for MM fiber	
Water Penetration	IEC 60794-1-22-F5B Time : 24 hours Sample length : 3m Water height : 1m	No water leakage	



Fiber and Loose Tube Identification

The color code of fibres and loose tube will be identification in accordance with the following color sequence, other sequence also is available.

Color Code	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Violet	Pink	Aqua

The color of the fillers will be natural.

Cable Marking

HERMESYS CHIMERAX SWA DIRECT BURIED FIRE RETARDANT CABLE <FIBER TYPE> XXF <P/N> WWYYYY XXXXM

meter marking at every 1m interval

Shipping Information

Packing Method

Wooden Drum with Protection

Delivery Length

Standard Delivery Length is 2km with a tolerance of $\pm 3\%$

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S408830



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