



ChimeraX SWA Fire Resistant Cable 4/12/96F G652D Fully Dry Design

Flame Resistant

IEC 61034-1, -2

IEC 60332-1

IEC 60331-25

Design Reference

IEC 60502-2004

Application

Tunnel Environment

Oil & Gas Plant

Working Condition

Storage Temperature

-40°C ~ +70°C

Installation Temperature:

-10°C ~ +60°C

Operation Temperature

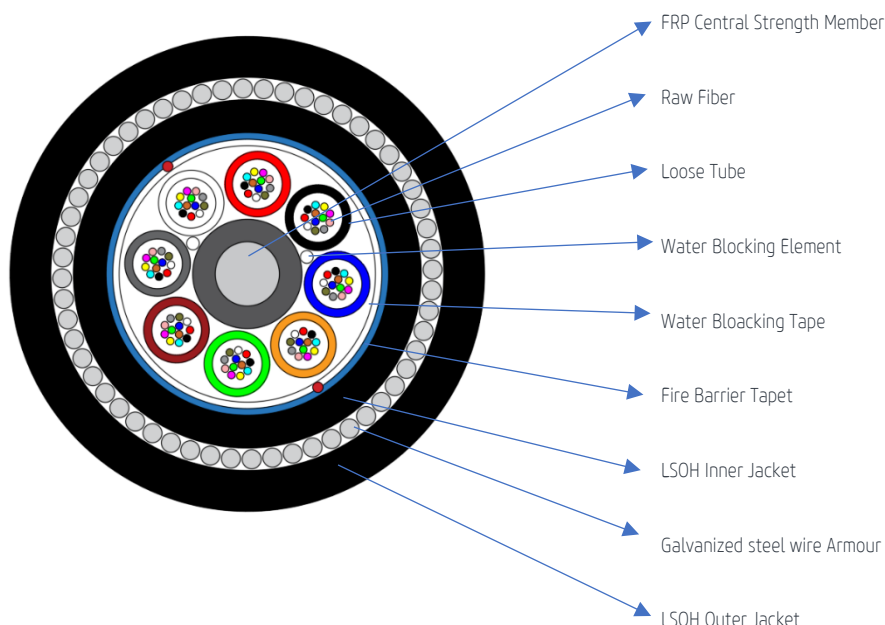
-20°C ~ +70°C

Min. Allowable Bending Radius

Static: > 15 D

Dynamic: > 30 D

D is the out diameter of the
cable



Technical data

Number of Fiber		4/12/96
Fiber		G652D
Loose Tube		PP Material Loose Tube
Loose Tube Water Blocking Element		Super Dry™ Dry Core Material
Central Strength Member		FRP with coating
Fiber Per Loose Tube		12F Maximum per tube
Cable Core Water Blocking Element		Water Blocking Yarn & Water Blocking Tape
Cable Core Wrapping		Fire Barrier Tape
Inner Jacket		LSOH
Armouring		Galvanized Steel Wire Armour
Outer Jacket		LSOH
Overall Diameter Nom.	mm	18.2
Weight approx	kg/km	785



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 3.2.1 Sample length: Not less than 50m. Duration time: 1min.		Additional attenuation: $\leq 0.1\text{dB}$ after test No damage to outer jacket and inner elements
Crush	IEC 60794-1-2-E3 Load: According to 3.2.1 Duration of load: 1min		Additional attenuation: $\leq 0.1\text{dB}$ after test No damage to outer jacket and inner elements
Impact	IEC 60794-1-2-E4 Radius: 300mm Impact energy: 4.5J Impact number: 1 Impact points: 3		Additional attenuation: $\leq 0.1\text{dB}$ No damage to outer jacket and inner elements
Bend	IEC 60794-1-2-E11A Mandrel radius: $12.5 \times D$ Turns: 10 Cycles: 5		Additional attenuation: $\leq 0.1\text{dB}$ No damage to outer jacket and inner elements
Repeated bending	IEC 60794-1-2-E6 Bending radius: $20 \times D$ Cycles: 30 Load: 150N		Additional attenuation: $\leq 0.1\text{dB}$ No damage to outer jacket and inner elements
Torsion	IEC 60794-1-2-E7 Cycles: 10 Length under test: 1m Turns: $\pm 90^\circ$ Load: 150N		Additional attenuation: $\leq 0.1\text{dB}$ No damage to outer jacket and inner elements
Temperature cycling	IEC 60794-1-2-F1 Sample length: at least 1000m Temperature range: $-40^\circ\text{C} \rightarrow +70^\circ\text{C}$ Cycles: 2 Temperature cycling test dwell time: 12 hours		The change in attenuation coefficient shall be less than 0.1 dB/km



Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS CHIMERAX SWA FIRE RESISTANT FULLY DRY CABLE G652D 96F <2009D2(2)512> WWYYYY XXXXM

Shipping Information

Packing Method

Wooden Drum with Protection

Delivery Length

Standard Delivery Length is 4km with a tolerance of $\pm 3\%$



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