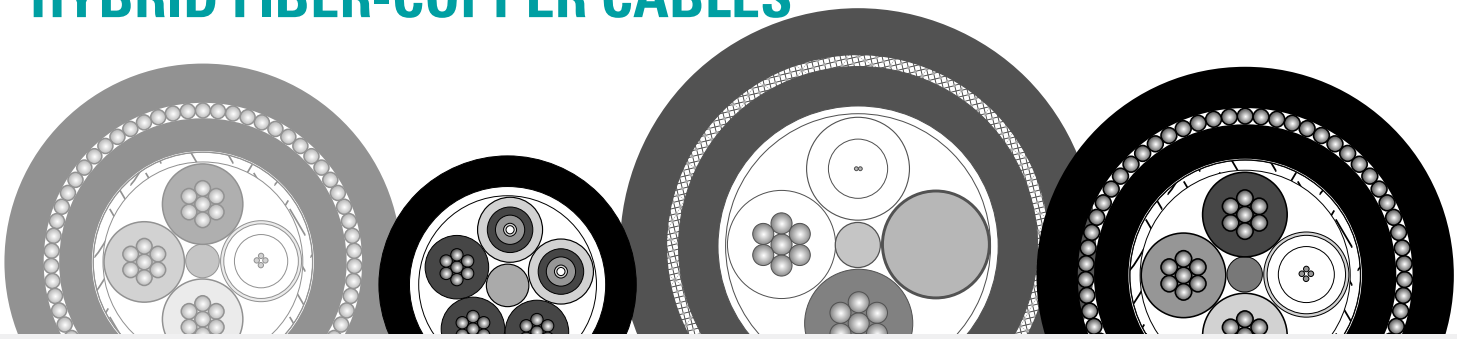
HYBRID FIBER-COPPER CABLES



Hybrid cables offer a solution suitable for every special application where a single cable with copper conductors and optical is preferred.
These are not standard constructions, as cables are designed to provide the right solution for every individual need.
Copper cables can be for data transmission, or control application or for power.
Fibres can be either tight jacketed or loose tube construction.

APPLICATIONS

Hybrid cables can be used for optical data transmission, electrical instrument and power circuit.
They can be installed for indoor/outdoor applications, with flame retardant or fire resistant properties.
Cable can be used for fix installation or for temporary installation in open ground, in forests, water, populated areas. Temporary cables are rolled up again to be re-installed on another occasion.

CABLE CONSTRUCTION

Copper elements

Conductors: plain or tinned annealed electrolytic copper wire according to IEC 60228.
Insulation: XLPE, PE, PVC or LSZH compound, mica tape/XLPE for fire resistant applications.
Cabling: conductors can be twisted in pairs or in concentric layers.
Screen option: aluminium/polyester tape, copper/polyester tape or copper braid.

Fibre Optic Elements

Fibres: singlemode or multimode fibres.
Loose construction: jelly filled loose tubes containing 1/24 fibres, mica tape wrapped when fire resistance is required.
Tight construction: tight buffered fibres with aramide yarns and protected by a thermoplastic jacket.

Additional elements

Water blocking tapes.
Central strength member, steel or FRP (fibre reinforced plastic).

Armour:	SWA	Steel Wire Armour
	GSWB	Galvanized Steel Wire Braid
	CSTA	Corrugated Steel Tape Armour
	GSTA	Galvanized Steel Tape Armour

Sheath: PVC, PU or LSZH thermoplastic material

On request other special materials or construction solution.