

# Industry Link TWINFIX – glass-armoured breakout cables



## Properties

- Metal free indoor and outdoor cable
- For direct connector assembly with strain relief
- Rodent-protected, glass-armoured
- Easy stripping
- Low smoke, halogen free and self-extinguishing
- Improved crush resistance
- For high thermal and mechanical stability
- UV protected, suitable for outdoor use
- Longitudinal and transversal watertight cable

## Applications

- For fixed installation
- Industrial Ethernet and LAN
- Machine cabling
- As control or data cable in factory automation
- Data cabling for harsh environment
- Connection to outdoor devices
- LSFH™ – for applications involving high safety requirements in case of fire

## Design

Cable design	2 single fiber cables with tight tubes
Strain relief	glass-armoured
Jacket material	LSFH™
Jacket colour	black

According to IEC 60794-1-2

## Ordering information

02-.../(ZNG)H...22

02-.../(ZNG)H...22\_UN (optional)

Please see page 167.

## Approvals

UL listed acc. OFN/OFNG

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Specification						
Cable type		Industry Link TWINFIX				
Fiber types		E9, G50, G62	H200	POF980		
Jacket Ø	mm	7.5 × 7.2	7.5 × 7.2	7.5 × 7.2		
Single fiber cable Ø	mm	2.2	2.2			
Tube Ø	mm	0.9	0.9	2.2		
Channel marking on single fiber		black and orange with arrows				
Approx. weight	kg/km	61	67	67		

Mechanical properties						
Tensile strength	during installation	N	2000	2000	2000	IEC 60794-1-2 E1
	in service	N	1000	1000	1000	
Min. bend radius	during installation	mm	40	105	25	IEC 60794-1-2 E11
	in service	mm	25	70	25	
Crush resistance	short-term	N/dm	6000	6000	5000	IEC 60794-1-2 E3
	long-term	N/dm	2000	2000	2000	
Impact resistance	Wp = 2.2 J	impacts	200	200	200	IEC 60794-1-2 E4
Repeated bending	r = 60 mm/1 kg	cycles	10 000	10 000	10 000	IEC 60794-1-2 E6
Torsion	± 360°	cycles	10	10	10	IEC 60794-1-2 E7
Water penetration	h = 1 m, 24 d, p < 3 m		p	p	p	IEC 60794-1-2 F5A

Thermal properties						
Temperature range	during installation	°C	-10 to +60	-10 to +60	-10 to +60	IEC 60794-1-22 F1
	in service	°C	-40 to +70	-20 to +70	-30 to +70	
	in storage	°C	-45 to +70	-25 to +70	-30 to +70	

Combustion properties						
Fire load		MJ/m	1.15	1.1	1.25	
Fire propagation	on a vertical cable bundle		p	p		IEC 60332-3-24
Fire test	with circuit integrity (CI)	min	90			IEC 60331-25
Halogen acid gas	jacket material		p	p	p	IEC 60754-1
Degree of acidity	jacket material		p	p	p	IEC 60754-2
2011/65/EC (RoHS)			compliant			

Conformance						
PROFINET	specification <sup>1)</sup>			yes	yes	
(EU) No 305/2011 (CPR)			Dca-s1a, d0, a1			EN 50575

p = passed

<sup>1)</sup> Standard black jacket and with H+S marking. According to PROFINET specification with green jacket and PROFINET marking (PROFINET Type B 2K200/230 or PROFINET Type B 2P980/1000)