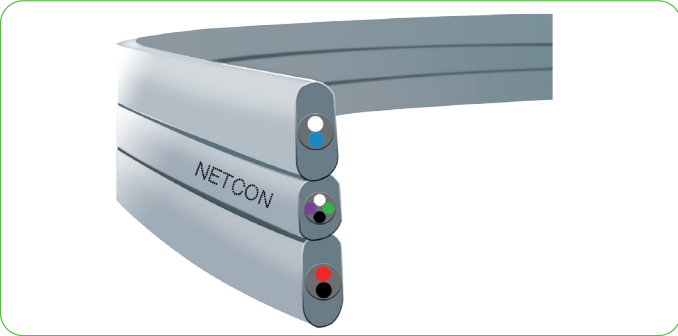


4 Fiber + 4 Power Flat Cable



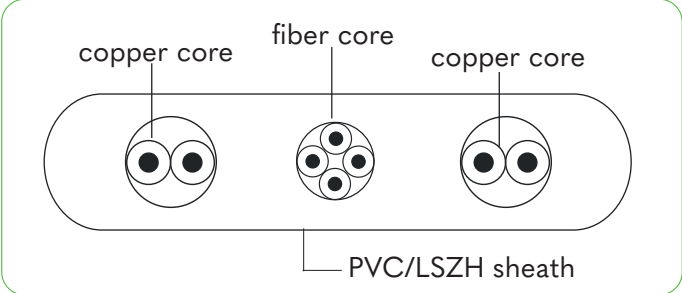
DESCRIPTION

The Netcon flat ribbon cable designed for high-rise elevators, combining both data and power transmission in a single, streamlined solution. This cable solution is tailored for the demanding environment of high-rise buildings, offering a reliable, efficient, and space-saving option for modern elevator systems.

APPLICATIONS:

Elevator Control Systems: Ensures reliable data communication between the elevator car and the control room while supplying power for operational components.

High-Rise Buildings: Specifically engineered for the unique challenges of high-rise elevators, where long cable runs and reliable performance are essential.



PRODUCT OVERVIEW

Cable Type: Flat ribbon cable.

Fiber Optic Component: Single-mode, 4-core fiber optic cable.

Power Component: 4-core, 0.75 sqmm power cable.

Application: Specifically designed for high-rise elevator systems.

KEY FEATURES:

Efficient Space Utilization: The flat design allows the cable to fit in narrow spaces, ideal for elevator shafts where space is limited.

Data Transmission: The single-mode fiber optic cores ensure long-distance, high-speed data communication, critical for modern elevator control systems.

Power Supply: The 0.75 sqmm power cores provide sufficient power to elevator systems, supporting essential functions like lighting, communication, and control systems.

High Durability: Designed to withstand the mechanical stresses typical in elevator applications, such as frequent bending and movement within the shaft.

TECHNICAL SPECIFICATIONS

Fiber Optic Component

Cable Type	4-core Single Mode (ITU-T G.657A1 or G.652D)
Optical Characteristics	9 μm (core)
Core Diameter	125 μm
Cladding Diameter	250 μm
Coating Diameter	1310 nm and 1550 nm
Wavelengths Supported	≤ 0.35 dB/km at 1310 nm
Attenuation	≤ 0.22 dB/km at 1550 nm
Bandwidth	Typically >10 GHz·km at 1550 nm
Data Transmission Distance & Speed	1 Km @ 10 Gbps
Running Speed	≤ 6 M/s
Cable Cutoff Wavelength	≤ 1260 nm, 9.2 μm ± 0.4 μm at 1310 nm
Travelig height	250 Mtrs
Minimum Bend Radius	10x cable diameter during installation, 5x cable diameter post-installation

Max Suspension Length

50-80 Meters

contd...

4 Fiber + 4 Power Flat Cable**TECHNICAL SPECIFICATIONS** (Contd..)

Environmental Characteristics	
Temperature Range:	Operating: -40°C to +70°C
	Storage: -40°C to +85°C
	Installation: -20°C to +60°C
Water Blocking	Gel-filled or dry tube options available for moisture resistance
Jacket Material	PVC / LSZH
Power Cable Component	
Cable Type	4 core 0.75 Sqmm , Multi Strand Copper
Voltage Rating	300/500V (IEC 60227) 450/750V (IEC 60502-1)
Current Carrying Capacity	5 -10 Amps - based On Application
Conductor Resistance	Per IEC 60228, approximately 12.1 Ω/km at 20°C for 1.5 sqmm copper
Insulation Resistance	≥ 20 MΩ.km at 20°C
Mechanical Characteristics	
Insulation Material	PVC / XLPE
Sheath Material	PVC / LSZH, Grey
Bend Radius	10x the cable thickness during installation, 5x the cable thickness in static conditions
Conductor Classification	IEC 60228 Class 5
Standard	EN50214
Elements	4C Single mode Fibre cable with 2P x 0.75mm Copper core
Maximum Distance for Power Cable	12V DC, 5A : 23Mtrs / 24V DC, 5A :46 Mtrs / 230V AC, 5A : 450 Mtrs

ORDERING INFORMATION

Part No	
NTL4P4FSP	Hybrid Elevator Cable, 4F Single Mode Fiber with 2P, 0.75 Sqmm Flexible Copper power cable, PVC Jacket