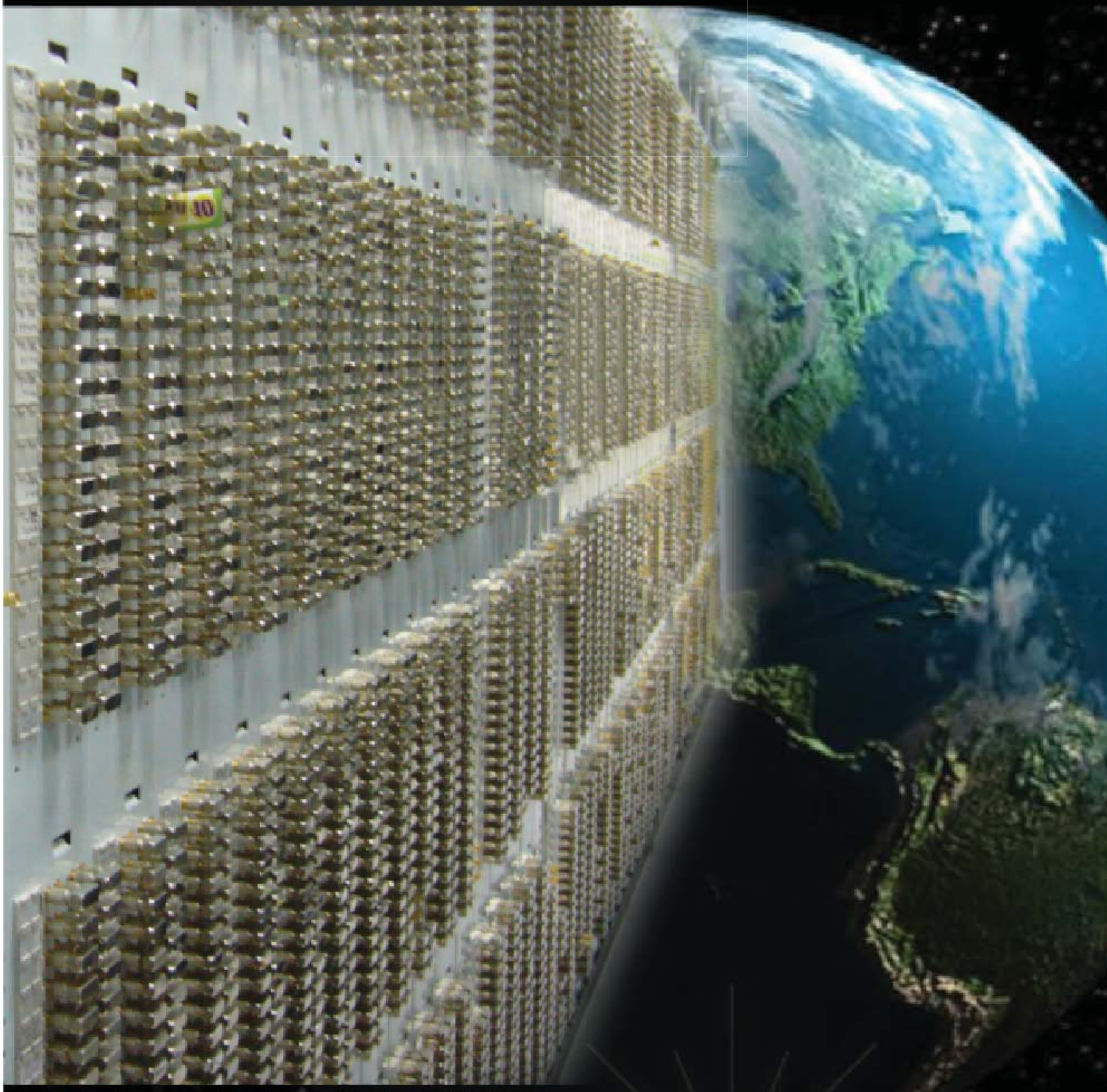
High Density DDF Solution



Litech®

www.litech.cc

HD-DDF
Digital Distribution Frame

75 Ohm Digital Distribution Frame is designed for coaxial cable termination and cross connection in between transmission equipments in fixed or mobile network. DDF are normally installed in for interconnection, cross connection or traffic monitoring with proper cable management.

Litech HD-DDF is a high density digital distribution frame design to accommodate high capacity of cross connection requirement in exchanges, MSC, BSC or RBS, when space is constrained. Litech HD-DDF are designed to use with most commonly used 1.6/5.6 connector but offers better features and density over standard DDF in the market. Litech HD-DDF is also offer the mounting for Krone type 10 pair modules for 120 Ohm system or alarm and monitoring applications.

Space Saving

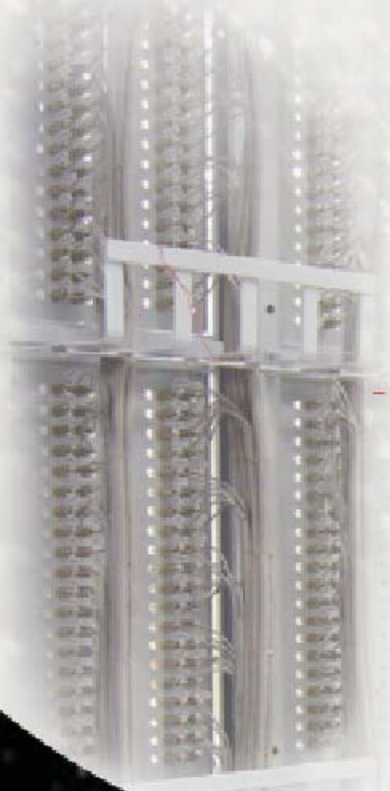
For standard 300mm footprint with 2200mm height, HD-DDF can accommodate 160 circuits (640 connectors) for 1.6/5.6 connector.

Safe From Accidential Disconnection

HD-DDF are cabled from the rear and jumper in front with U-links, this ensures safe cable management and avoid unintentional interruption of circuit from front.

Label for Identification

Sufficient space are available for proper identification labels.



Allow Live Traffic Monitoring

U-link with monitoring ports (Y-link) are available for circuits which required continuous monitoring without interruption of service.

High stability and reliability

Both connectors used are with outstanding performance and have been recognized with high stability and reliability.

Good Cable Management

Litech HD-DDF are equipped with proper cable management holder and cable guide, to management both vertical cables as well as horizontal cable across the DDF frames. Once installed, all the jumpers are securely hide at the rear of the frames.

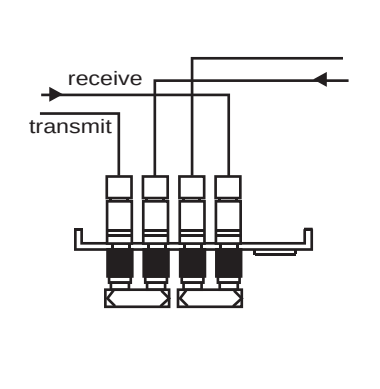
Flexibility

HD-DDF can accommodate DDF blocks of Krone type of 10 pair modules, for 120 ohm system applications, alarm or monitoring systems. The cable termination application can be done in the same DDF.

HD-DDF
Installation Options

DDF Link Configuration

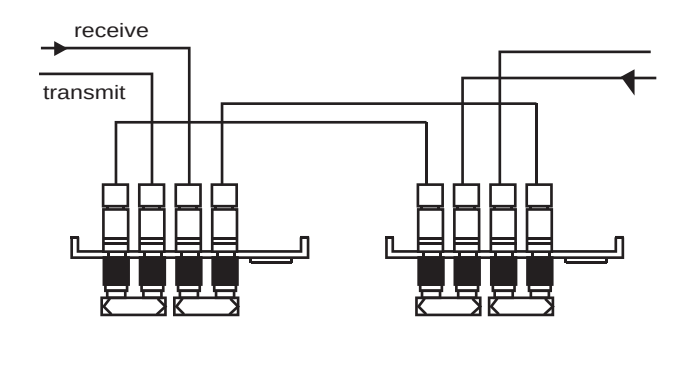
DDF is an interface between exchange and transmission equipment, it can be installed in the interconnect (2-link) or Cross-Connnect (4-link) configuration. Both configuration allowed link measurement and monitoring.



Interconnect Configuration

This link configuration is the most cost effective solution, which required only two link or 4 connectors for a 2Mbit link system. Coaxial cable from exchange and transmission equipment are both terminated at the same DDF panel. The link is connected via U-link or Y-link in front of the panel. Normally coaxial cable from the exchanges are fixed whereas the cable from the transmission equipments are re-patch for different traffic routing requirement

Cross Connect Configuration



This link configuration is the most flexible solution, which required four link or 8 connectors for a 2 Mbit link system. This configuration allowed traffic to be re-routed moving the cable either from exchange or transmission side. The coaxial cables from exchange are terminated at one DDF panel whereas cables from transmission equipment are terminated at the other DDF panels. All link are made using pre-fabricated jumpers in between these two panel at the rear and via U-link in front.

HD-DDF
Frame Accessories

DDF Frame

2 columms

4 columms

Litech High Density Digital Distribution Frame is a standard floor mountable frame. The DDF Frame comes in standard 2.2 meter of 2 columns and 4 columns to accommodate up to 8 DDF blocks and 16 DDF blocks respectively. DDF Panel is complete with self-tapping screw, washer and numbered silkscreen printing from bottom to top for connection identification. Standard accessories includes : wall plugs, bolts and nut, U-bolts and extendible ladder for top mounting. All DDF is delivered fully assembled for easy installation at site.

Specification

DDF Panel	c/w self-tapping screw, washer and numbered silkscreen printing from bottom to top
Material	SECC-P metal, JIS G3313 specification
Finish	High quality oven baked epoxy powder
Colour	White

Ordering Information

Part Number	Dimension (mm)	Description
LTR-DDF-DG2-2.2	300 x 250 x 2200	Rack HD-DDF 2 Columms
LTR-DDF-DG4-2.2	560 x 250 x 2700	Rack HD-DDF 4 Columms

DDF Block

Ordering Information

Part Number	Description
LTCF-HDC-P8	HD-DDF Block 20 E1

DDF Krone Frame

Ordering Information

Part Number	Description
LTCF-HDC-P8	HD DDF 2x8 way Krone Frame

HD-DDF
Frame Accessories

Connectors

Straight
Female Clamp

Straight
Female Crimp

Y Link

U Link

Ordering Information

Part Number	Description
LTCN-309-FF	1.6/5.6 Straight Female Clamp
LTCN-102F-XX	1.6/5.6 Straight Female Crimp
LTCN-108-MMF	1.6/5.6 Male-Male-Female Y Link
LTCN-107-MM	1.6/5.6 Male-Male U Link

Pre-terminated Jumper

Litech provide pre-fabricated coaxial jumpers to allow faster and easier installation of DDF.

Ordering Information

Part Number	Description
LJCB-X-Y-C-L	Coaxial Jumper

Coaxial Cables

Ordering Information

Part Number	Description
LTCO-TLBX-CP	Singlecore 2.5C2V
LTCO-TLTE-FS-T	8 core 2.5C2V
LTSCO-TL-BS	Singlecore 3C2V
LTCO-TLTE-FS-SD	Singlecore BT3002
LTCO-TLTE-STOU	8 core BT3002
LTCO-TLTE-STOU	Singlecore BT2003

Coaxial Termination Tools

Coaxial Tool Kit

Jacket Stripper

Stripper Universal

Fastening Tool

Crimping Tool

Ordering Information

Part Number	Description
LTCO-TLBX-CP	Coaxial Tool Kit
LTSCO-TL-BS	Jacket Stripper
LTCO-TLTE-STOU	Stripper Universal
LTCO-TLTE-FS-T	Fastening Tool (T Shape)
LTCO-TLTE-FS-SD	Fastening Tool (Screw Driver Type)
LTCO-TLCP-I01	Crimping Tool

HD-DDF
Frame Accessories

75 ohm to 120 ohm Balun

120 Ohms link is made possible by using 75 Ohm to 120 Ohm balun. Balun is a media converter for 2Mbit link which allow a unbalanced 75Ohm coaxial interface equipment to operate over balanced 120Ohm twisted pair cables, or visa versa. Litech offers 1.6/5.6 balun with IDC punch down or wire wrap design to allow connection to DDF panel, offering flexibility in different impedance cable to be used on the same DDF frame.

1.6/5.6 Straight Male to Wire Wrap

1.6/5.6 Straight Female to IDC 3 Pole

Ordering Information

Part Number	Description
LTBL-IDC-1SF-W2P	Coaxial Balun 1.6/5.6 Straight Female to Wire Wrap
LTBL-IDC-1SF-3P	Coaxial Balun 1.6/5.6 Straight Female to IDC 3 Pole

10 Pair Module

Disconnection Module

Connection Module

Ordering Information

Part Number	Description
LTZF-CL2-10A-PBT	10 Pair Disconnection Module
LTZF-CL2-10B-PBT	10 Pair Connection Module

Krone Tool

Insertion Tool

Testcord

Ordering Information

Part Number	Description
LTZF-10PR-TL-KR	Litech Krone Insertion
LTZF-TES-2P-120	Testcord

120 ohm Cables

2 Pair Screened

4 Pair Screened

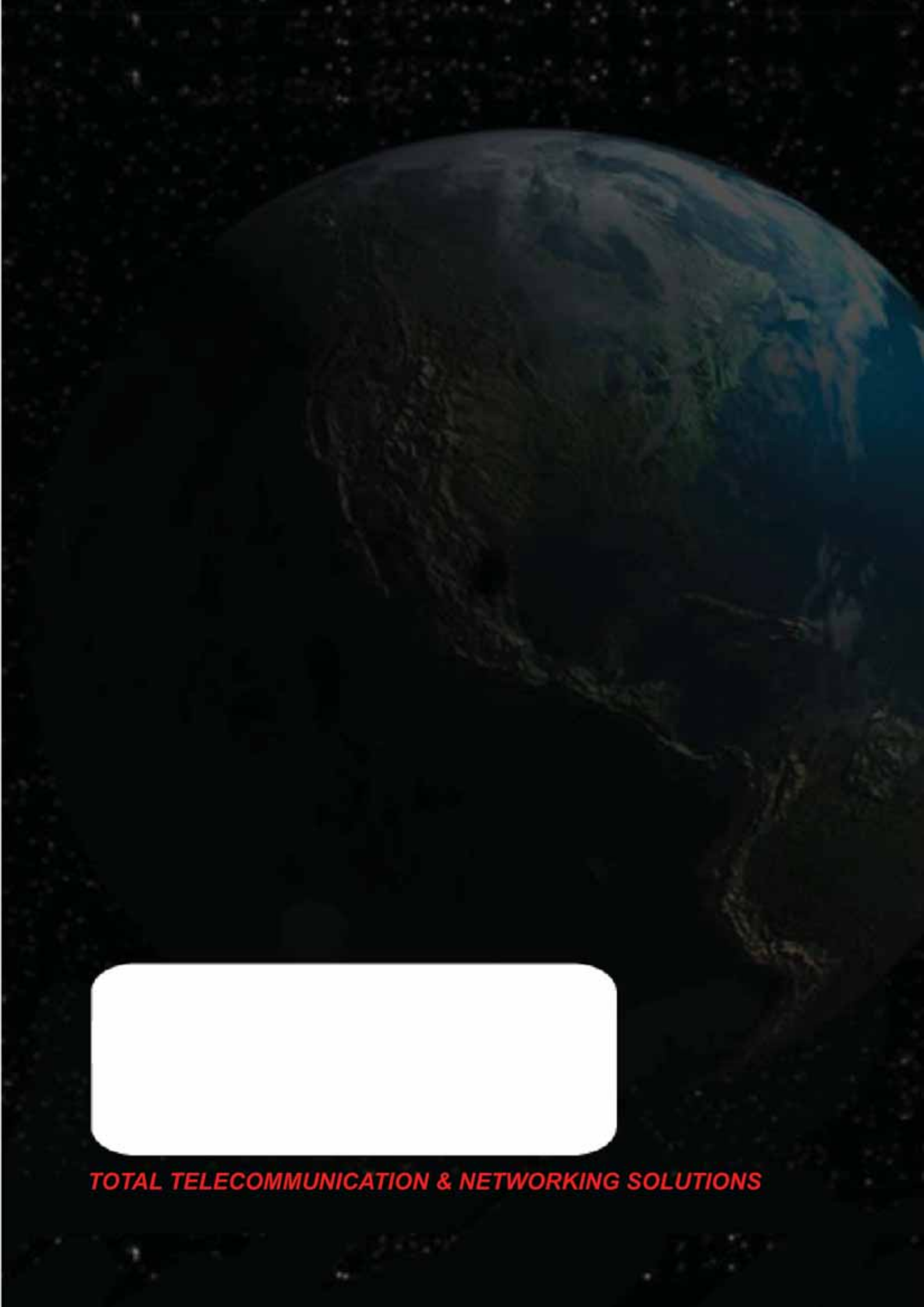
8 Pair Screened

8 Pair Shielded

16 Pair Screened

Ordering Information

Part Number	Description
LTSS-FT-120-02	2 Pair Jumper Cable, Screened, 120 Ohm Balanced
LTSS-FT-120-04	4 Pair Jumper Cable, Screened, 120 Ohm Balanced
LTSS-FT-120-08	8 Pair Jumper Cable, Screened, 120 Ohm Balanced
LTSS-SFT-120-08	8 Pair Shielded Cable, 120 Ohm Balanced
LTSS-FT-120-16	16 Pair Jumper Cable, Screened, 120 Ohm Balanced



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