



CABLEADO ESTRUCTURADO



Electro Industrial Solutions S.A.
Soluciones Integrales

"Pone la Tecnología a sus Proyectos"

	CABLEADO ESTRUCTURADO	FECHA: Marzo, 2016
	CATÁLOGO COMERCIAL DE PRODUCTOS & SERVICIOS	REVISIÓN: A.3

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2 Cableado Estructurado

Contamos con gran experiencia y capacidad para diseñar e Implementar infraestructura que requiera de Cableado Estructurado para integración de diversos servicios solicitados por nuestros clientes: Voz, Datos, Video y Automatización de Edificios, para ello contamos con personal entrenado en las normativas: ANSI, TIA, EIA lo cual nos permite realizar servicios en las distintas categorías normadas en el mundo del cableado estructurado

A continuación, se describe las dos categorías principales que son comúnmente solicitados:

1. *Categoría de Productos*
2. *Categoría de Servicios*

2.1 Categoría de Productos

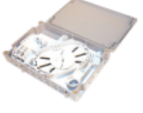
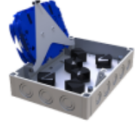
2.1.1 Armarios

2.1.1.1 Armarios 19"

Alternativa FibreFab	Alternativa Rittal
	
Alternativa Panduit	Alternativa Tecniases
	

2.1.2 Caja de terminaciones

Se suministra productos de la Marca Fibrefab:

CSB04 Termination Box  Houses a single splice tray and allows fibres from internal or external cables to be spliced to pigtails for connection to the optical network unit.	CSB05 Termination Box  Houses a single splice tray and allows fibres from externally fed cables (Blown Fibre or conventional), to be spliced to pigtails for connection.	CSB07 FTTH Customer Outlet  Muti cable entry points,Integrated heatsrink splice holder,Holds up to 2 single fibres,Integrated fibre management,Integrated Shutter.
CSB10 FTTH Customer Outlet  Wall box is designed for FTTH applications, with similar dimensions to existing telephone connections it is well suited to home or office environments.	CSB11 FTTH Customer Outlet SC Simplex / LC Duplex  The internal customer outlet box is designed for use inside the home. The operator has the choice to have the box unloaded or equipped with adaptors	CSB12 FTTH Customer Outlet SC Duplex / LC Quad  The internal customer outlet box is designed for use inside the home. The operator has the choice to have the box unloaded or equipped with adaptors
CSB14 FTTH Customer Outlet  The internal customer outlet box is designed for use inside the home. The box is designed to hold 2 x flangeless SC Simplex or 2 x flangeless LC duplex adapters.	CSB15 FTTH Customer Outlet  The internal customer outlet box is designed for use inside the home. The box is designed to hold 4 x SC Simplex or 4 x LC duplex adapters.	IP66/67 Splice and Pass Through Enclosure  This IP66/67 splice and Pass Through enclosure offers the ability to terminate up to 48 fibres housed in a robust ABS enclosure for indoor and outdoor applications.
W24 Indoor/Outdoor Distribution Box  This Lockable IP65 distribution box offers the ability to terminate 12 fibres housed in a strong robust ABS enclosure for indoor and outdoor applications.	W25 Indoor/Outdoor Distribution Box  Lockable IP65 distribution box offers the ability to terminate 4 fibres housed in a strong robust ABS enclosure for indoor and outdoor applications.	

2.1.3 Patch Cords

Se suministra productos de la Marca Fibrefab:

Armoured Patch Cords  Armoured patchcord are used in outdoor applications in customer premises, central offices and in harsh environments.	Data Centre Patch Cords  Data centre range patch cords are designed for low loss data centre applications. The patch cords provide flexible interconnection to active equipment	High Performance Patch Cords  High Performance Patch Cords are a range of "best in class" Singlemode Patch Cords employing highest grade components, manufacturing processes and test methods.
LC Uniboot Patch Cords  LC Uniboot Patch Cords are designed for high density applications in Data Centre environment. Reduced size means improved airflow management.	Mode Conditioning Patch Cords  Mode conditioning Patch Cords are specifically designed for launching your gigabit signal into the conventional 62.5/125 or 50/125 fibre.	mSFP Mini LC Patch Cords  Mini-LC patch cords are designed to provide flexible interconnection between specialist high density equipment and patch panels.
OM1 Simplex/Duplex Patch Cord  Multimode patch cords are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet.	OM2 Simplex/Duplex Patch Cord  Multimode Jumpers are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet.	OM3 OM4 RBS LC Short Boot Patch Cord  LC patchcords supplied with a short boot are ideal for high density applications with tight space requirements.

OM3 OM4 RBS SC Short Boot Patch Cord


SC patch cords supplied with a short boot are ideal for high density applications with tight space requirements.

OM3 Simplex/Duplex Patch Cord


Multimode Jumpers are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet.

OM4 Simplex/Duplex Patch Cords


Multimode Patch cords are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet.

OS1 OS2 G657 LC Patch Cord


SC patch cords supplied with a short boot are ideal for high density applications with tight space requirements.

OS1 OS2 G657 SC Patch Cord


LC patch cords supplied with a short boot are ideal for high density applications with tight space requirements.

OS2 SM Simplex/Duplex Patch Cord


Singlemode patch cords are used for telecom networks and also used for high speed metropolitan and access network.

Premium Patch Cords


Premium range Patch Cords are suitable for low loss telecom, datacom, data centre and some critical applications.

Reduced Bend Sensitivity Patch Cords


Patch Cords and pigtailed are available in both singlemode and multimode classes based on reduced bend sensitivity (RBS) fibre cable.

Telecom Patch Cords


Telecom range patch cords are designed for low loss Telecommunication applications.

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2.1.4 Pigtailes

Se suministra productos de la Marca Fibrefab:

OM1 Multimode Pigtail  Multimode Pigtails are used to connect high speed networks like Gigabit Ethernet, Fast Ethernet and Ethernet.	OM2 Multimode Pigtail  Multimode Pigtails are used to connect high speed networks like Gigabit Ethernet, Fast Ethernet and Ethernet.	OM3 Multimode Pigtail  Multimode Pigtails are used to connect high speed networks like Gigabit Ethernet, Fast Ethernet and Ethernet.
OM4 Multimode Pigtail  Multimode Pigtails are used to connect high speed networks like Gigabit Ethernet, Fast Ethernet and Ethernet.	OS1 OS2 Singlemode Pigtail  Singlemode Pigtails are used in telecom, datacom networks and also used for high speed metropolitan and access network.	

2.1.5 Conectores

Se suministra productos de la Marca Fibrefab:

FC Connectors



FC connector features a 2.5 mm ferrule and a threaded coupling nut, for a secure connection in high vibration environments.

LC Connectors



LC Connector is a cost effective, small form factor fiber optic connector that helps to reduce space on panels or outlets by up to 50%.

LC Field Installable Connectors



LC field-installable connectors (FIC) are factory terminated and polished to make fibre terminations fast, easy and reliable.

SC Connector



SC connectors are available in singlemode for both PC and APC and in multimode PC.

SC Field Installable Connectors



SC field-installable connectors (FIC) are factory terminated and polished to make fibre terminations fast, easy and reliable.

ST Connectors



ST connector has a quick release bayonet style body and spring loaded ferrule.

ST Field Installable Connectors



ST field-installable connectors (FIC) are factory terminated and polished to make fibre terminations fast, easy and reliable.

2.1.6 PatchPanels

Se suministra productos de la Marca Fibrefab:

AM1U Sliding Patch Panel – 3 Position Modular



1U sliding panel with a smoked plexi glass hinged front door. This panel has been designed to accept up to 3 LGX style assemblies.

AM2U Sliding Patch Panel – 6 Position Modular



2U sliding panel with a smoked plexi glass hinged front door. This panel has been designed to accept up to 6 LGX style assemblies.

AM3U Sliding Patch Panel – 9 Position Modular



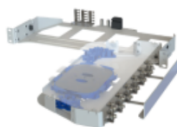
3U sliding panel with a smoked plexi glass hinged front door. This panel has been designed to accept up to 9 LGX style assemblies.

AM4U Sliding Patch Panel – 12 Position Modular



4U sliding panel with a smoked plexi glass hinged front door. This panel has been designed to accept up to 12 LGX style assemblies.

P07 1U Pivot Patch Panel – 24 Position SC/LC up to 48 fibers



Innovative, robust 1U pivot patch panel. This panel has been designed to accept up to 48 fibres housed within a 1U space.

S13 1U Sliding Patch Panel – 3 Port Modular up to 576 fibers



An innovative, robust 1U Sliding Patch Panel. This panel has been designed to accept up to 3 LGX Modules or MTP® Cassettes within a 1U space.

Sliding Patch Panel Chassis

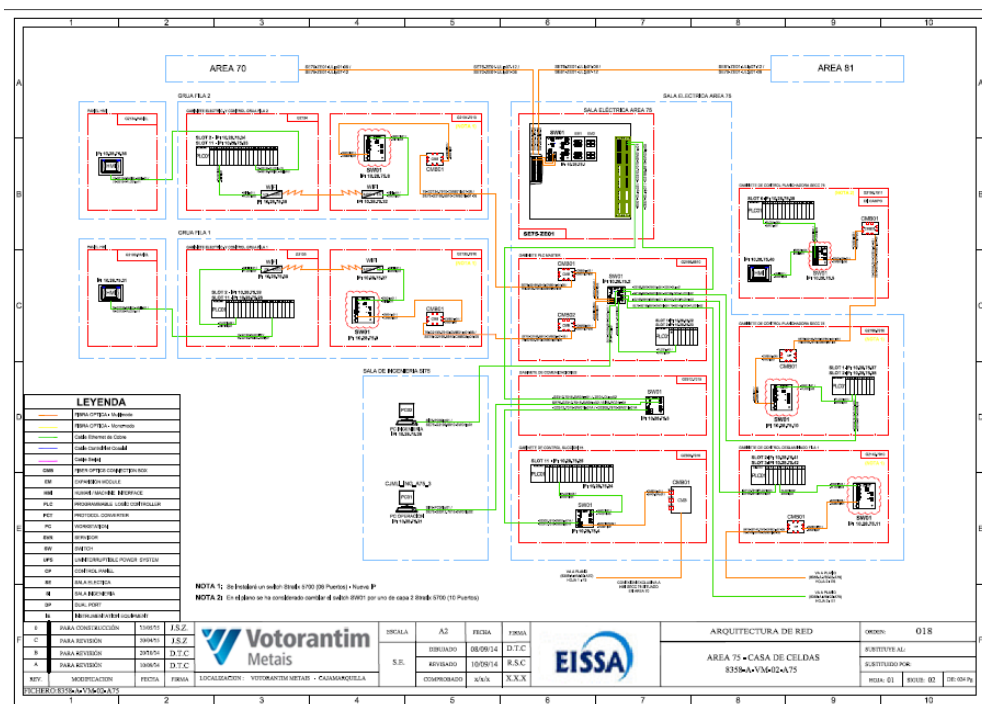


Removable front panels chassis is a 19 inch 1U sliding panel in two parts: one sliding chassis and one front panel, which receives the optical adaptors.

2.2 Categoría de Servicios

2.2.1 Servicio N° 01:

Diseño e Implementación de cableado estructurado según las necesidades del cliente: puntos de usuario, distribución horizontal y vertical en edificios, oficinas, comercios, industrias, etc.



2.2.2 Servicio N° 02:

Tendido e Instalación de Cable de Fibra Óptica ADSS, Indoor, Outdoor – Tipo Monomodo y Multimodo



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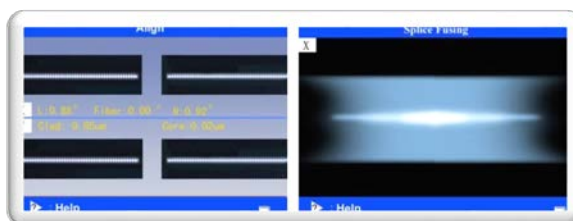
2.2.1 Servicio N° 03:

Pruebas de F.O. con equipo OTDR de cada enlace, después, del tendido de cable.



2.2.2 Servicio N° 04:

Fusión de F.O. con equipo Fusion Splicer.



2.2.3 Servicio N° 05:

Enpalme mecánico de F.O. con conectores Pre-pulidos, con equipo OptiCam-Panduit.



2.2.4 Servicio N° 06:

Certificación de enlace permanente, canal y Patch Cord de Cu con Equipo Fluke DSX 5000



ID. Cable: PATCHCORD-01

Fecha / Hora: 05-12-2015 09:24:40 AM

Paso Libre 15.9 dB (NEXT 36-45)

Límite de Prueba: TIA Cat 6A Perm. Link

Tipo de Cable: Cat 6A F/UTP

Fecha de calibración: 14-01-2015

Operador: DIANA LL

Versión de Software: V4.2 Build 6

Versión de Límites: V4.2

NVP: 74.0%

Sumario de Pruebas: PASA

Modelo: DSX-5000

Principal N/S: 2920301

Remoto N/S: 2920312

Adaptador Principal: DSX-CHA004

Adaptador Remoto: DSX-CHA004

Longitud (m), Lim. 90.0	[Par 12]	2.2
Tiempo de Prop. (ns), Lim. 498	[Par 36]	11
Diferencia Retardo (ns), Lim. 44	[Par 36]	1
Resistencia (ohm.)		N/A

Pérdida Inserción Margen (dB)	[Par 45]	40.9
Frecuencia (MHz)	[Par 45]	462.0
Límite (dB)	[Par 45]	41.8

Margen de Peor Caso Valor de Peor Valor

PASA	MAIN	SR	MAIN	SR
Peor Par	36-45	36-45	12-78	36-45
NEXT (dB)	17.6	15.9	19.4	18.6
Frec. (MHz)	376.0	32.8	483.0	459.0
Límite (dB)	30.8	49.7	27.1	27.9
Peor Par	45	36	45	45
PS NEXT (dB)	19.7	17.6	20.5	21.4
Frec. (MHz)	377.0	34.0	481.0	480.0
Límite (dB)	28.0	47.0	24.3	24.4

PASA	MAIN	SR	MAIN	SR
Peor Par	45-36	36-45	45-36	36-45
ACR-F (dB)	17.2	17.5	17.5	17.6
Frec. (MHz)	432.0	432.0	479.0	479.0
Límite (dB)	11.5	11.5	10.6	10.6

Peor Par	36	45	36	45
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1-2-3-4-5-6	20	22	20	22
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1-2-3-4-5-6	11.2	11.2	10.6	10.6
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1-2-3-4-5-6	125.0	125.0	125.0	125.0
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1-2-3-4-5-6	13.5	13.5	13.5	13.5
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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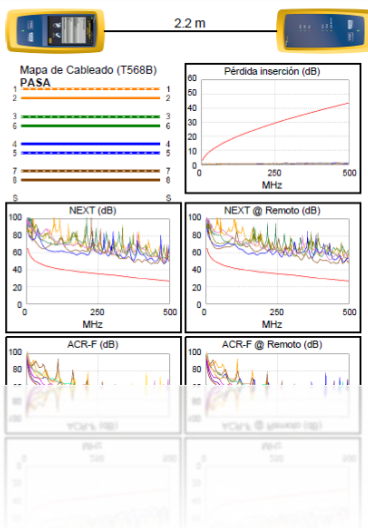
1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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1-2-3-4-5-6	20-20	20-20	20-20	20-20
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2.2.5 Servicio N° 07:

Certificación de Patch Cord Fibra Óptica con Equipo Fluke "Certifiber Pro".






ID. Cable: 007
 Fecha / Hora: 16-09-2015 10:05:11 AM
 Tipo de Cable: OM4 Multimode 50
 n = 1.4820 (850 nm)
 n = 1.4790 (1300 nm)

Sumario de Pruebas: PASA

Ancho de banda modal: 4700MHz-km (850 nm)
 Ancho de banda modal: 500MHz-km (1300 nm)
 Coeficiente de retrodispersión: -68.0dB (850 nm)
 Coeficiente de retrodispersión: -75.8dB (1300 nm)

Perdido (R->P)		Perdido (P->R)	
PASA			
Fecha / Hora: 16-09-2015 10:05:11 AM			
Límite de Prueba: General Fiber Optic			
Version de Límite: 4.1			
Operador: DIANA LLERENA			
CertFiber Pro (3000644 v4.1 Build 2)			
Modulo: CFP-QUAD(309610)			
Fecha de calibración: 31-03-2015			
certFiber pro remote (2960028 v4.1 build 2)			
Modulo: CFP-QUAD(309610)			
Fecha de calibración: 31-03-2015			

Tiempo de Prop. (ns)		Longitud m	
411	83.3	PASA	PASA
Lim. 2000.0			
850 nm	1300 nm		
Result.	PASA	PASA	PASA
Perdida (dB)	0.81	0.85	
Lim. (dB)	8.50	4.50	
Margen (dB)	7.69	3.65	
Referencia (dBm)	-24.43	-24.14	

Tipo conector: LC
 Longitud del puente: 1 m; 2.0
 Fecha de referencia: 16-09-2015 09:53:26 AM
 1 puente

Perdido (P->R)		Perdido (R->P)	
PASA			
Result.			
Perdida (dB)			
Lim. (dB)			
Margen (dB)			
Referencia (dBm)			

Estándares de Red Compatibles:

10/100BASE-SX	1000BASE-LX	1000BASE-SX
100BASE-FX	1000BASE-SR10	1000BASE-SR4
10BASE-FL	1000BASE-LRM	1000BASE-LX4
100BASE-SR	40GBASE-SR4	ATM155
ATM155SWL	ATM52	ATM622 Fiber Optic
ATM622SWL Fiber Optic	FDX Fiber Optic	Fibre Channel 100-M5-SN4
Fibre Channel 100-M5E-SN4	Fibre Channel 1200-M5E-SN4	Fibre Channel 133
Fibre Channel 1600-M5E-SN4	Fibre Channel 1600-M5F-SN4	Fibre Channel 200-M5-SN4
Fibre Channel 200-M5E-SN4	Fibre Channel 266	Fibre Channel 266SWL
Fibre Channel 400-M5-SN4	Fibre Channel 400-M5E-SN4	Fibre Channel 400-M5F-SN4
Fibre Channel 800-M5E-SN4	Fibre Channel 800-M5F-SN4	