SMART QUICK-FIT CONNECTORS

Edition 2007

HUBER+SUHNER

SMART QUICK-

HUBER+SUHNER extend their product range of coaxial connectors with another line of unique field installation connectors for corrugated foam dielectric cables.

Application

- outdoor feeder line installations for mobile communications and other wireless systems

Innovation...

does not necessarily mean making sophisticated products even more complex. It is also employing best practice from other fields of engineering to enhance our own core competences. SMART QUICK-FIT connectors have adopted simple and effective gas and water sealing techniques found in plumbing for coaxial line termination.

Features

- quick, easy and secure field installation
- two-piece design
- multi-brand cable compatibility
- high performance stripping tool support
- cable stripping tools of other manufacturers can be used
- water proof (IP68)
- excellent RF performance
- lowest possible PIM products
- long life cycle
- reusable

FIT Connectors

Connector interfaces	Cable sizes
DIN 7/16 and N	• 1/2"
male	• 7/8" • 7/8" low attenuation
and	
female	• 7/8" flexible

Electrical data	
Impedance	50 Ω
Frequency range	DC to 7.5 GHz (DIN 7/16) to 11 GHz (N)
Return loss/VSWR	≥30 dB/1.06; f ≤2.5 GHz
Passive intermodulation (PIM)	≤ -155 dBc

Environmental data	
Temperature range	-40 °C to +85 °C, operating
IP rating	IP68 (acc. to IEC 60529, 1 m/24h)

Material data	Material	Plating
Cable entry	brass	SUCOPLATE®
Connector head	brass	silver/SUCOPLATE®
Outer contact	brass	silver/SUCOPLATE®
Centre contact	spring bronze	silver

Cable compatibility list

Connectors	Corrugated Cables			
HUBER+SUHNER SMART QUICK-FIT	HUBER+SUHNER SUCOFEED	ACOME HYPERCELL	ANDREW HELIAX	DRAKA NK CABLES
1/2"	SD_1/2	HPL50-1/2F	LDF4-50A	RF 1/2"-50, RFA 1/2"-50
7/8"	SD_7/8	HPL50-7/8F	LDF5-50A	RF 7/8"-50
7/8" low attenuation	SD_7/8_LA	HPL50-7/8FLA	AVA5-50	RFA 7/8"-50
7/8" flexible	SD_7/8_HF	HPL50-7/8SF	VXL5-50	
HUBER+SUHNER SMART QUICK-FIT	EUPEN MICROCELL	HANSEN HANSEN	LEONI FLEXLINE	RFS CELLFLEX
1/2"	EC4-50	RF50 1/2"	FlexLine 1/2" R	LCF12-50
7/8"	EC5-50	RF50 7/8"	FlexLine 7/8" R	LCF78-50
7/8" low attenuation		RF50 7/8" L		LCF78-50A, LCF78-50L
7/8" flexible		RF50 7/8" S		UCF78-50A

Stripping tool compatibility list

Connectors	Stripping tools			
HUBER+SUHNER SMART QUICK-FIT	HUBER+SUHNER	Telegärtner	Rosenberger/Leoni	Andrew
1/2"				
Rotating tool	74_Z-0-12-15	N00091A0018	S45056-Z857-A32	CPT -L4ARC*
Hand cutting/flaring tool		N00091A0015		MCPT -L4*
7/8" (+7/8" flexible)				
Rotating tool	74_Z-0-23-16	N00091A0019	S45056-Z857-A34	CPT-78U, CPTL5A
Hand cutting/flaring tool		N00091A0014	S45056-Z857-A6-A	MCPT-78
7/8" low attenuation				
Rotating tool	74_Z-0-23-17			CPT-78U
Hand cutting/flaring tool		N00091A0014	S45056-Z857-A6-A	A5MCPT-78
HUBER+SUHNER SMART QUICK-FIT	EUPEN	Spinner	RFS	
1/2"				
Rotating tool	SPTC50AV12			
Hand cutting/flaring tool		BN 54 13 17	RFS Trim 12-L	
7/8" (+7/8"HF)				
Rotating tool	SPTC50AV78M			
Hand cutting/flaring tool		BN 54 13 18	RFS Trim 78-L	
7/8" low attenuation				
Rotating tool				
Hand cutting/flaring tool		BN 54 13 18	RFS Trim 78-L	

*) for 1/2" Andrew tools, different SMART QUICK-FIT connectors have to be used – refer to product portfolio

HUBER+SUHNER tools and accessories
high performance stripping tools for
QUICK-FIT and SMART QUICK-FIT manual
or machine use

available for cable sizes:
1/2", 7/8", 1 1/4" and 1 5/8"

Connectors

Customer benefits

- excellent cost of ownership
  (price, assembling time, maintenance costs)
- simplified logistics because of multi-brand
  cable compatibility
- cable stripping on 3 tooling levels possible
  - high performance tools (machine or hand operation)
  - standard hand operation tools
  - without special tools
- use of existing stripping tools including HUBER+SUHNER
  and other manufacturers

Product line portfolio – 5 basic designs – in total 20 connector types

For 1/2" foam dielectric cable

SUCOFEED_1/2 and equivalents

General versions
11_716-50-12-40
21_716-50-12-40
11_N-50-12-40
21_N-50-12-40

Andrew versions (for Andrew tooling)
11_716-50-12-41
21_716-50-12-41
11_N-50-12-41
21_N-50-12-41

For 7/8" foam dielectric cable

SUCOFEED_7/8 and equivalents

11_716-50-23-40
21_716-50-23-40
11_N-50-23-40
21_N-50-23-40

SUCOFEED_7/8_HF and equivalents

11_716-50-23-41
21_716-50-23-41
11_N-50-23-41
21_N-50-23-41

SUCOFEED_7/8_LA and equivalents
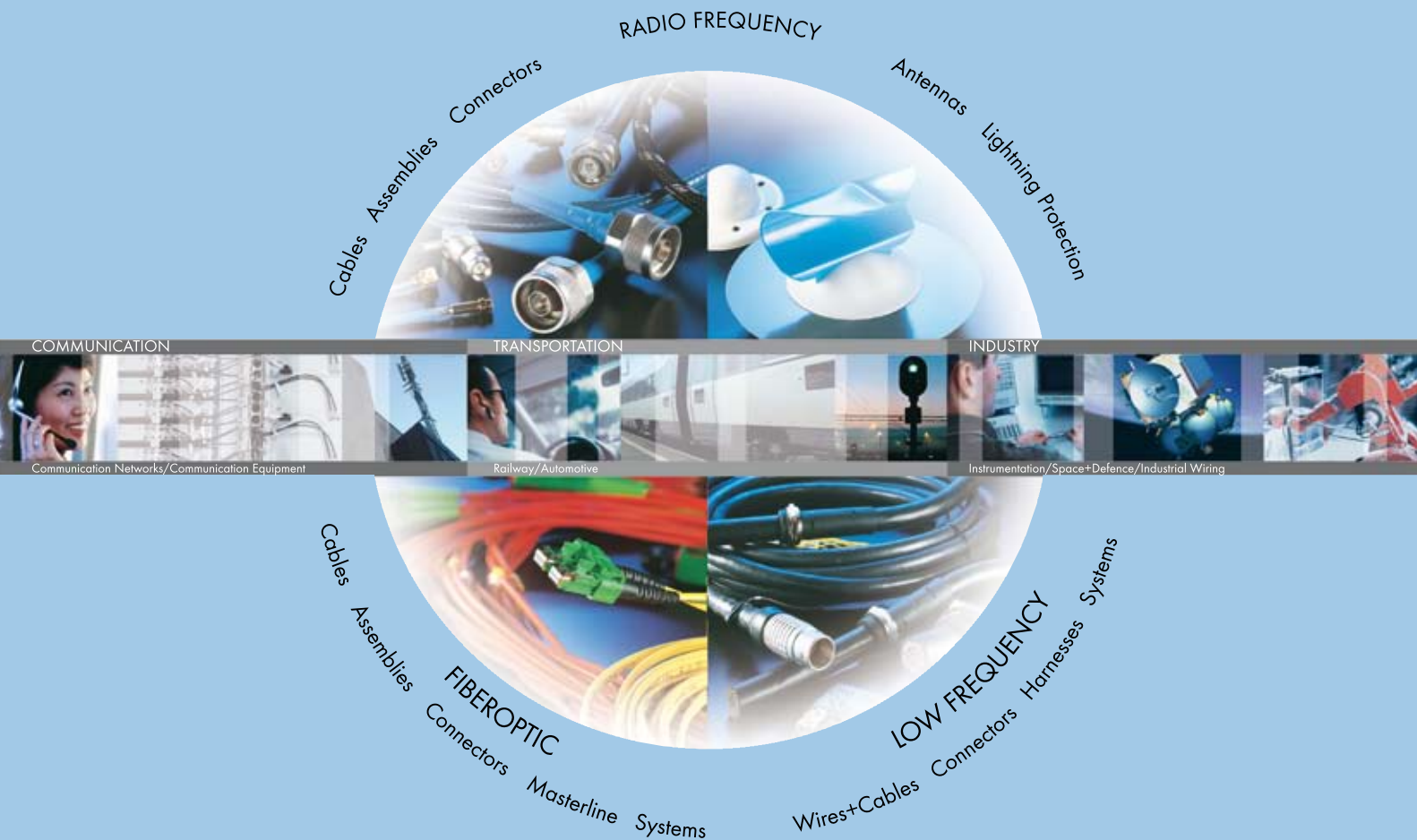
11_716-50-23-42
21_716-50-23-42
11_N-50-23-42
21_N-50-23-42

HUBER+SUHNER – Excellence in Connectivity Solutions

HUBER+SUHNER is a leading global supplier of components and systems for electrical and optical connectivity in communications, industrial and transportation markets.
HUBER+SUHNER can draw on core competences in the areas of high frequency technology, fibre optics, cables and polymers. Working in close collaboration with our customers around the globe, we strive for excellence in the development and manufacturing of high quality products.

RADIO FREQUENCY

Cables Assemblies Connectors

Antennas Lightning Protection

COMMUNICATION

TRANSPORTATION

INDUSTRY

Communication Networks/Communication Equipment

Railway/Automotive

Instrumentation/Space+Defence/Industrial Wiring

Cables Assemblies Connectors

FIBEROPTIC Masterline Systems

LOW FREQUENCY

Wires+Cables Connectors Harnesses Systems

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001.

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