cpe
italia

CPE LINECARD

YOUR PARTNER
IN TECHNOLOGICAL
DEVELOPMENT

MADE IN
ITALY

Table of Contents

	Type of product

Company History and new Targets

CPE is a family company founded in 1978 and established in Milan, Italy.
The business started as a trading company of connectors and cables, addressing defense
and telecommunication.
After a few years of activity, moving from a trading to a manufacturing company was an organic and
natural progression, thus pursuing high specialization in harness assembly and connector production.
Since the spirit of CPE ITALIA has always been and always will be to assist the "client ally", constant
growth was sustained by the founder of the company by opening new production sites all over the world.
CPE ITALIA is now a Group of about 400 people with production facilities in Brazil, China, Italy, Mexico,
Romania, branch offices in North America and India, headquarters in Milan.
With profound knowledge of and years of experience in multiple sectors like Defense, Broadcasting,
Communication Infrastructure, Medical, Transportation, Nuclear, Oceanographic Installations, CPE supports
its client-focused ideology with the development of solutions tailored to each client's needs.

We like to imagine our behavior and capability results similar to these of the well known
"**Tricolor Arrows**" pilot team:

attentive to the rules ⟶ guidelines, organization and discipline

total security as top priority ⟶ quality

amaze and engage ⟶ Innovation and results that exceed customer expectations

40 YEARS
INSIDE CONNECTIVITY MARKET

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FIBER OPTIC
CABLE HARNESS & ACCESSORIES

cpe
italia

MADE IN ITALY

RoHS COMPLIANT

REACH COMPLIANT

RoHS EXP. FREE

DMC 5.5
DIGITAL MODULAR CONNECTOR 5.5

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MADE IN ITALY

RoHS COMPLIANT

REACH COMPLIANT

RoHS EXP. FREE

CMC & CMCC

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MADE IN ITALY

RoHS COMPLIANT

REACH COMPLIANT

RoHS EXP. FREE

CRB CPE RECTANGULAR BACKSHELL

cpe italia

MADE IN ITALY

RF COAXIAL PRECISION CABLE ASSEMBLIES

cpe italia GROUP

Cables harnesses with cable **COBHAM**

FIBER MANAGEMENT SOLUTIONS

cpe italia GROUP

OFL CONNECTORS

cpe italia

MADE IN ITALY

RF COMPONENTS & CABLES

Market Interconnect Technology	1 Broadcast Military Telecom	2 Broadcast Military Telecom	3 Broadcast Military Telecom	4 Broadcast Military Telecom	5 Testing
Type	Coaxial Flange Connectors	Coaxial Connectors	Coaxial Connectors	Coaxial Connectors	Precision Coaxial Adapters up to 60 GHz
Mounting	Cable Clamp / Solder	Cable clamp / Solder / Crimp	Cable clamp / Crimp / Solder / Panel	Cable clamp / Crimp / Solder / Panel	Straight / Panel
Shell Materials	Brass	Brass	Brass/Stainless Steel	Brass/Stainless Steel	Stainless steel
Insulator Material	PTFE	PTFE	PTFE	PTFE / ULTEM	PTFE / ULTEM
Contacts Technology	clamp/Solder	clamp/Solder	crimp/clamp/Solder	crimp/clamp/Solder	Precision machined
Environmental	water proof	water proof	water proof	---	---
Specifications *	EIA STD RS-225 MIL-DTL-24044 *	MIL 39012 DIN VG CECC IEC *	MIL 39012 DIN VG CECC IEC *	MIL 39012 DIN VG CECC IEC *	MIL 39012 DIN VG CECC IEC *
Rohs	Yes	Yes	Yes	Yes	Yes
Family	Coaxial Connectors	Coaxial Connectors	Coaxial Connectors	Coaxial Connectors	Coaxial precision adapters
Series / Interface	Eia 3-1/8 - Eia 1-5/8 - Eia 7/8- From Rg 401 To Rg 214 And Lmr Style And Corrugated Cable From 1/4" To 1 5/8"	7/16-4,1/9,5-4,3/10-N-Nex10 /2,2-5	BMA-SMP-SMA-SMB-SMC-SSMC -MCX-MMCX-1,0/2,3-1,6/5,6-BNC 50/75 Ohm-TNC-UHF -PC7--SC-LC-N-	Mini SMP-3,5mm-2,92mm-2,4 mm - 1,85 mm	SMP-Mini SMP-MCX-MMCX-SMA-3,5mm-2,92mm-2,4MM-PC7-SMA-BMA-SMB-TNC-

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SEE NEXT PAGE

Market Interconnect Technology	6 Broadcast Military Railway Telecom Trasportation	7 Military Telecom Testing	8 Broadcast Military Telecom	9 Broadcast Military Telecom
Type	Coaxial Corrugated Copper Cable / Radiating Cable	Precision Radio Frequency / Microwave cable assemblies	Flexible Cable / Hand Formable / Semirigid / low loss / polyethylene foam dielectric	Antenna System / Site Solutions
Mounting	Jumper - Feeder - Radiating Line	Flexible, Reformable and Semirigid	---	Cable clamp / Crimp / Solder / Panel
Shell Materials	Corrugated Copper	copper tube / copper braid / Stainless steel / Armored	copper braid	Brass/Stainless Steel
Insulator Material	Physically Foamed PE	PTFE / expanded PTFE	PE / PTFE	PTFE / Ultem
Contacts Technology	---	Crimp / Clamp / Solder	stranded / solid copper central conductor	crimp/clamp/Solder
Environmental	CPR	YES / NO	CPR	---
Specifications *	MIL STD	MIL STD 81490	---	---
Rohs	Yes	Yes	Yes	Yes
Family	Coaxial Cables for field application	Coaxial Cables	Coaxial Cables	Coaxial connectors / Coaxial cables/ Coaxial accessories
Series / Interface	1/4" - 1/2" - 1/2 SFLX - 3/8" 7/8 " - 1 _5/8"	Low Loss / Ultra Low loss / Phase Stable / Flexible / Ultra Flexible cables	RG Style / Tin Dipped Copper Braid / Copper - Aluminum Tube	Ground kit - Lighting protector - Wall entry Jumper - Feeder cables

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GROUP

RF jumper cable
assemblies

Connectors antenna
male or female

Ground clamps

Cable hangers

Feeder cables

Wall entries

Connectors TX/RX
male or female

RF jumper cable
assemblies

Over voltage
protections

CIRCULAR CONNECTORS

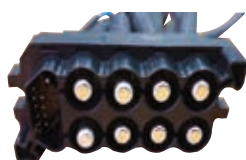| Market Interconnect Technology	**10** Industrial	**11** Industrial	**12** Medical Robotic Test & Measurement	**13** Medical Test & Measurement
Type	Screw Bayonet Push lock	Screw M5-M8-M10-M12	Push Pull	Push Pull
Mounting	Free Cables, PCB, Panel	Free Cables, PCB, Panel	Free Cables, PCB, Panel	Free Cables, PCB, Panel
Shell Materials	Plastic	Brass	Aluminum, Stainless Steel	PSU
Insulator Material	PA PPU	PA PPU	PEEK	PEEK
Contacts Technology	Precision Machined Standard PCB, Solder	Precision Machined Standard PCB, Solder	Precision Machined Standard Crimp, Pcb, Solder	Precision Machined Standard
Environmental	IP65 / IP68	IP65 / IP67	IP65 / IP68	IP50 / IP67
Specifications *		DIN-EN61076		
Rohs	YES	YES	YES	YES
Family	CICC	CICC	OFL	OFLP
Series	CICC Plastic	CICC Metal	L, K, F.	----

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Market Interconnect Technology	**14** SDR Radio Connectors and Cables 55 Ways	**15** Aerospace Military	**16** Off Shore Renewable energies Subsea Underwater	**17** Military Subsea
Type	Screw & Quick Disconnect	Ultraminiature Circular Push Pull Break - Away Fast clean	Under Water	Special
Mounting	Free Cables, PCB, Panel	Free Cables, PCB, Panel	PHP,Plug, Receptacle and In line connectors	Free Cables, PCB, Panel
Shell Materials	Aluminum, Stainless Steel	Aluminum, Stainless Steel	Stainless Steel, Marine Bronze, Titanium	Stainless Steel, Marine Bronze
Insulator Material	PPS	PEEK	PPS PEEK CR POM NEOPRENE	PPS / GLASS
Contacts Technology	Precision Machined Hyperboloid (Pin contacts diameters 0.6mm)	Precision Machined, Spring Loaded	Precision Machined, Optical, Coax	Precision Machined, Optical, Coax
Environmental	IP68	IP68	Water Pressure Resistant	Water Pressure Resistant
Specifications *			VG85519	STD-MIL
Rohs	YES	YES	YES	YES
Family	CMCC	CMC		
Series		A, B, C, D, E. Z, Y, X, W, V.	10, 16, 22, 24, 27, 34, 35 40, 42, 51, 60, 61, 64, 80.	

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RECTANGULAR CONNECTORS

Market Interconnect Technology	18 Industrial	19 Industrial Railways Transportation Testing	20 Industrial Military	21 Aerospace Military
Type	Power > 100A connectors	Modular for rack and panel applications	Rectangular D-Sub / COMBO / HD	Rectangular Micro -D
Mounting	Free Cables, PCB, Panel	Free Cables, PCB, Panel	Free Cables, PCB, Panel	Free Cables, PCB, Panel
Shell / frame Materials	Plastic, Metal & composite	Aluminum, Stainless Steel, 180° - 90° - 45°	Brass, Stainless steel	Aluminum, Stainless Steel, Titanium
Insulator Material	PBT	Polyamide-glass PPS	DAP PBT Polyester	PPS LCP
Contacts Technology	Precision Machined standard. Crimp / Solder	Precision Machined Hyperboloid. Crimp, Pcb, Solder	Precision Machined & stamped. Crimp, Pcb, Solder	Precision Machined Twist contacts. Pcb, Solder, Wired & Rigid flex
Environmental	NO	NO	YES/NO	YES/NO
Specifications *		STD-MIL	MIL-DTL-24308	MIL-DTL-83513
Rohs	YES	YES	YES	YES
Family	CIRC	DMC 5.5	CDSub	CMicro
Series	CIRC	C, D, E, F, G - H, K, WZ, ZX	CDS	CM

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Market Interconnect Technology	22 Aerospace Military	23 Aerospace Military	24 Aerospace Military	25 Aerospace Military
Type	Rectangular Nano-D	High Performance Rectangular Connectors	PCB Rectangular Connectors	Back Plane Rectangular Connectors
Mounting	Free Cables, PCB, Panel	Free Cables, PCB, Panel	Free Cables, PCB, Panel	PCB
Shell / frame Materials	Aluminum, Stainless Steel, Titanium.	Aluminum, Stainless Steel, Titanium.	Aluminum, Stainless Steel, Titanium.	Aluminum, Stainless Steel
Insulator Material	PPS LCP	PPS PEEK LCP	PPS PEEK LCP	PPS PEEK LCP
Contacts Technology	Precision Machined Twist contacts. Pcb, Solder, Wired & Rigid flex	Precision Machined, Spring Loaded. Crimp, Pcb, Solder Wired & Rigid flex	Precision Machined Hyperboloid. Crimp, Pcb, Solder. (Pin contacts diameters 0.4mm - 0.5mm - 0.6mm)	Precision Machined Hyperboloid. Pcb & Rigid flex. (Pin contacts diameters 0.4mm - 0.5mm - 0.6mm)
Environmental	YES/NO	YES/NO	YES/NO	YES/NO
Specifications *	MIL-DTL-32139	MIL-DTL-55302	MIL-DTL-55302	MIL-DTL-55302
Rohs	YES	YES	YES	NO
Family	Cnano	HDC	HDC	C55302
Series	CN	SL	HP	C55302

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RECTANGULAR AND CIRCULAR BACKSHELLS

RECTANGULAR BACKSHELLS

Market Interconnect Technology	26 Industrial Tranportations	27 Aerospace Military	28 Aerospace Military	29 Aerospace
Designed For	D-Subminiature MIL-C-24308	Micro-D COTS MIL-DTL-83513	Nano-D COTS MIL-DTL-32139	ARINC Series 400 and Series 600 Connectors
Production	Stamped	Precision machined	Precision machined	Precision machined
Shell Materials	Die Cast Zinc Plastic	Aluminum Stainless Steel	Aluminum	Aluminum Stainless Steel
Finish	-----	Electroless Nickel High Phosphorus Nikel 500 h Black Zinc Nickel	Electroless Nickel High Phosphorus Nikel 500 h Black Zinc Nickel	Electroless Nickel Olive Drab Black Zinc Nickel
EMI/RFI	YES/NO	YES	YES	YES
Environmental	NO	NO	NO	NO
Specifications *				AS85049
Rohs	YES	YES	YES	YES / NO
Family	CRB	CRB	CRB	CRB
Series	CDH	CMH	CNH	C4H C6H

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CIRCULAR BACKSHELLS

Market Interconnect Technology	30 Aerospace Industrial Military	31 Aerospace Industrial Military	32 Aerospace Industrial Military	33 Aerospace Military
Designed For	Circular Mil-Spec Connectors	Circular Mil-Spec Connectors	Circular Mil-Spec Connectors	Circular Mil-Spec Connectors
Production	Precision machined	Precision machined	Precision machined	Precision machined
Shell Materials	Aluminum Stainless Steel	Aluminum Stainless Steel	Aluminum, Stainless Steel	Aluminum
Finish	Electroless Nickel Olive Drab Black Zinc Nickel	Electroless Nickel Olive Drab Black Zinc Nickel	Electroless Nickel Olive Drab Black Zinc Nickel	Electroless Nickel Olive Drab Black Zinc Nickel
EMI/RFI	NO	YES/NO	YES	YES
Environmental	YES	YES	YES	NO
Specifications *	AS85049	AS85049	AS85049	AS85049
Rohs	YES / NO	YES / NO	YES / NO	YES / NO
Family	CCB	CCB	CCB	CCB
Series	---	---	---	---

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Our production techniques and knowledge
in the coaxial sector respond to all market needs

also for multi-wire cable harnesses we are able to offer
a wide range of solutions to meet customer needs

we are able to create assembled cables that simultaneously use coaxial,
signal, optical and power materials, also respecting
the critical environmental design problems

By taking advantage of the PCBa line, we are able to provide further solutions
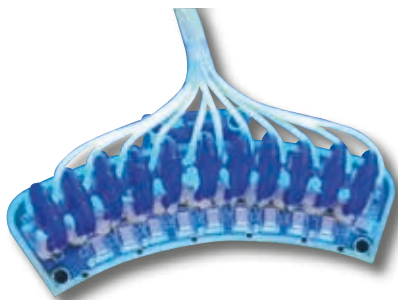
OPTICAL COMPONENTS

Market Interconnect Technology	**34** Broadcast Military Telecom Railway	**35** Broadcast Military Telecom Railway	**36** Broadcast Military Telecom Railway	**37** Broadcast Military Telecom Railway	**38** Broadcast Military Telecom Railway
Type	Optical cable Indoor / Outdoor	Optical Connectors	Optical adapter SX/Dx/Quad	Optical attenuator	Optical reflector
Model	Singlemode OS2 Multimode OM1-OM2-OM3-OM4-OM5	Singlemode UPC/APC Multimode PC	Singlemode Multimode	Singlemode Multimode	Singlemode (FTTH Network)
Materials	Sheath: PVC / PE / LSZH CPR (Eca - Cca - B2ca)	Plastic or metal	Plastic or metal	Plastic or metal	Plastic
Environmental	YES	YES	YES	YES	YES
Specifications *	IEC 60794	IEC 61754	IEC 61754	IEC 61754	IEC 61754
Interface		SC - FC - LC - E2000 ST - MPO	SC - FC - LC - E2000 ST - MPO	SC - FC - LC	SC
Rohs	YES	YES	YES	YES	YES
Family	COF	COF	COF	COF	COF

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Market Interconnect Technology	**39** Broadcast Military Telecom Railway	**40** Broadcast / Military Telecom /Railway	**41** Broadcast Military Telecom Railway	**42** Broadcast Military Oil & Gas Telecom
Type	Optical patchcord SX or DX Pigtail Optical Breakout cable Optical Fan-out cable	Mpo Connectors & Boots	Optical Termini Connectors and Cables	Expanded Beam Connectors & Assemblies
Model	Singlemode OS2 Multimode OM1-OM2-OM3-OM4-OM5	Singlemode Multimode	Singlemode Multimode	Singlemode Multimode
Materials	Sheath: LSZH	Plastic	Metal	Plastic or metal
Environmental	YES	NO	YES	YES
Specifications *	IEC 60794 IEC 61754	IEC 61754-7	M29504/4 – M29504/5 – M29504/14 – M29504/15	MIL-DTL-83526
Interface	SC - FC - LC - E2000 ST - MPO	MPO 12 MPO 24 MPO 32	MIL-DTL-38999 – MIL-C-26482 – ARINC – MIL-PRF-28876 – DFOCA -	MINI - JUNIOR - SENIOR COMPATIBILITY WITH (Fibreco -Qpc Tyco - Amphenol Telecast -Fibreco)
Rohs	YES	YES	YES – NO	YES – NO
Family	COF	COF		

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FIBER MANAGEMENT SOLUTIONS

Market Interconnect Technology	43 Telecommunication	44 Telecommunication	45 Telecommunication	46 Telecommunication
Type	Optical Termination Box Indoor / Outdoor	Optical Termination Panel Indoor	Fiber Distribution Closure Outdoor	Fiber Termination Closure Outdoor
Model	PTE 24/36/48 f.o.	19" or ETSI rack mounted complete for 48 f.o. with SC connectors	FDC AA (max 432 f.o.) FDC AB (max 1008 f.o.) FDC AC (max 1440 f.o.)	FTC (max 48 SC connectors) (max 216 f.o.)
Materials	Plastic	Plastic and metal	Plastic and metal	Plastic and metal
Environmental	YES	YES	YES	YES
Specifications *	EN 50411-3-4 EN 50411-3-2	IEC 61753-1-2	IEC 60529 (IP68) IEC 61300-3-1 IEC 61300-2-33	IEC 60529 (IP68) IEC 61300-3-1 IEC 61300-2-33
Interface		SC/UPC SC/APC		SC/UPC SC/APC
Rohs	YES	YES	YES	YES
Family	COF - FMB	COF - FMD	COF - FDC	COF - FTC

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Market Interconnect Technology	47 Telecommunication	48 Telecommunication	49 Telecommunication
Type	Fiber Management Rack	Optical Splitter	Patching Cabinet
Model	FMR ETSI 300 Indoor (2000x600x300)	Singlemode (G657 A1) (1x4 and 1x16)	FPS Outdoor
Materials	Plastic and metal	Plastic	Plastic and metal
Environmental	YES	YES	YES
Specifications *	IEC 61753-1-2	IEC 61753-1	EN 61300-3-1
Interface		SC/APC	SC/APC
Rohs	YES	YES	YES
Family	COF	COF	COF

* Made in accordance with

INTEGRATED SYSTEMS*

Market Interconnect Technology	50	Industrial, MilAero, Telecom, Railways
Type		Rackmount Cabinet
Mechanical		Aluminum, composite, Stainless Steel
EMI/RFI		YES / NO
Environmental		YES / NO
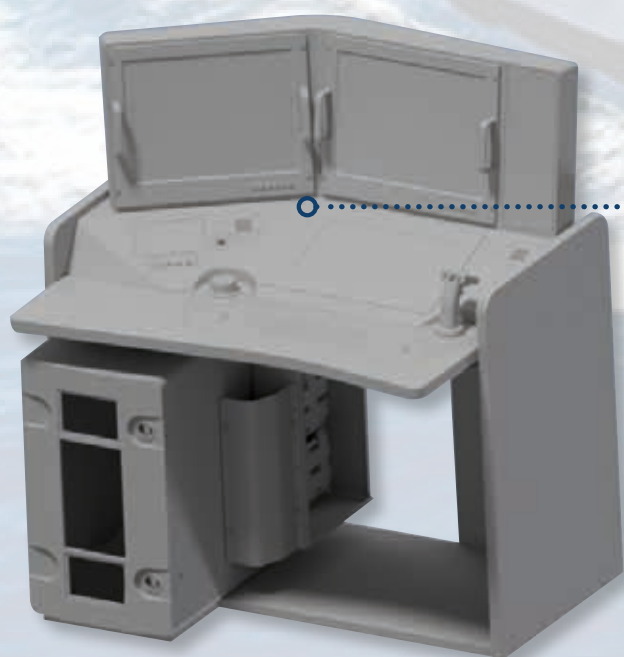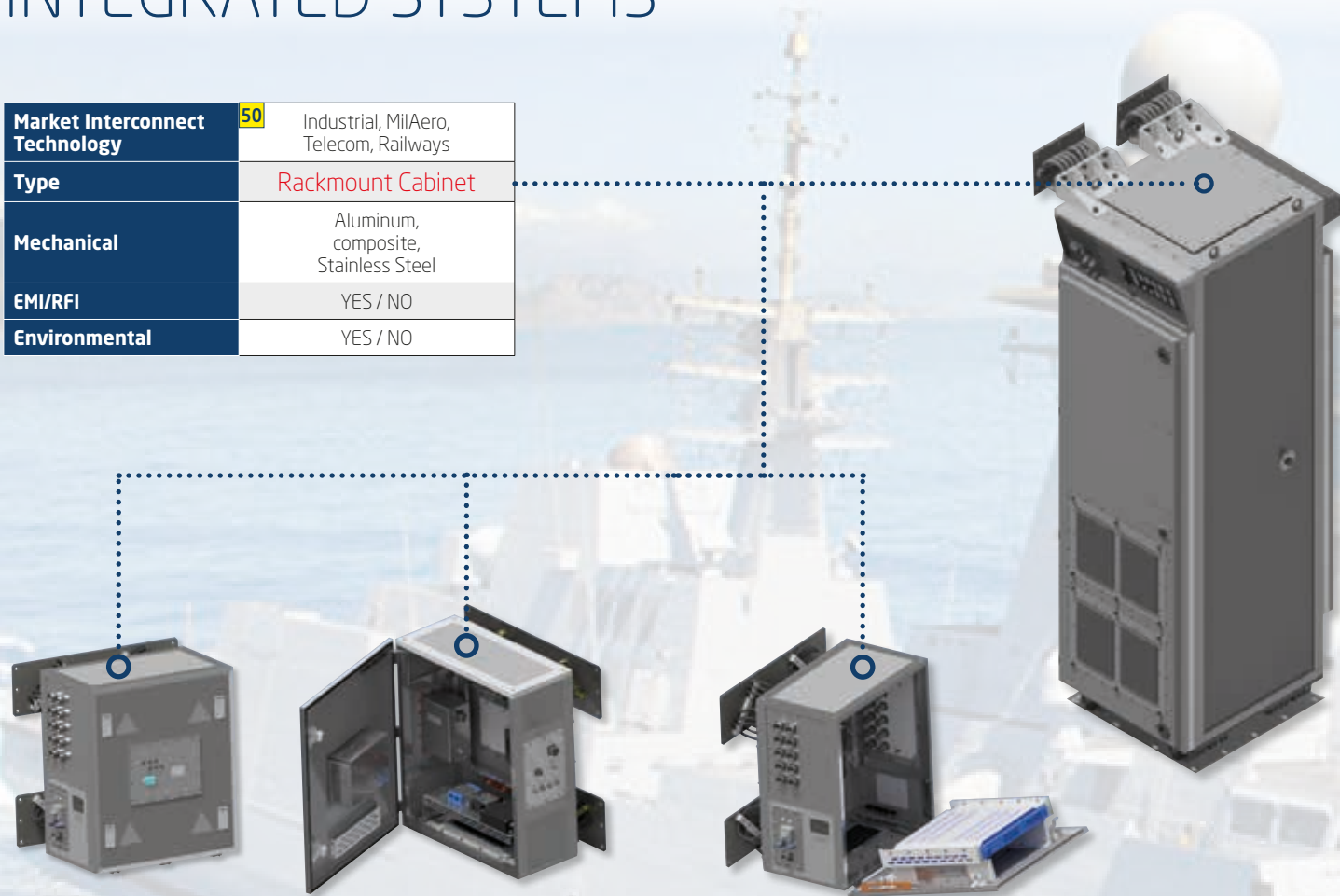
Market Interconnect Technology	51	Industrial, MilAero, Telecom, Railways
Type		Console
Mechanical		Aluminum, composite, Stainless Steel
EMI/RFI		YES / NO
Environmental		YES / NO

*Representative renderings. Photos can be viewed in CPE for security reasons

INTEGRATED SYSTEMS*

Market Interconnect Technology	52	Industrial, MilAero, Telecom, Railways, Offshore
Type		Integrated Electromechanical Assembly
Mechanical		Aluminum, composite, Stainless Steel
EMI/RFI		YES / NO
Environmental		YES / NO
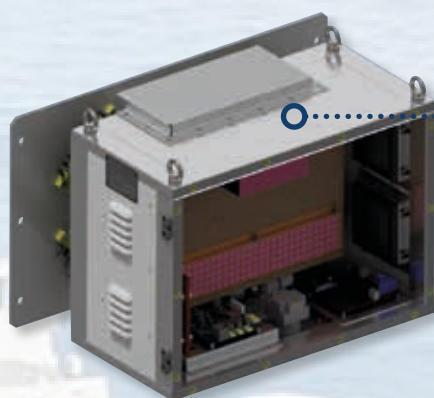
Market Interconnect Technology	53	Industrial, MilAero, Telecom, Railways
Type		Test equipments
Mechanical		Aluminum, composite Stainless Steel
EMI/RFI		YES / NO
Environmental		YES / NO

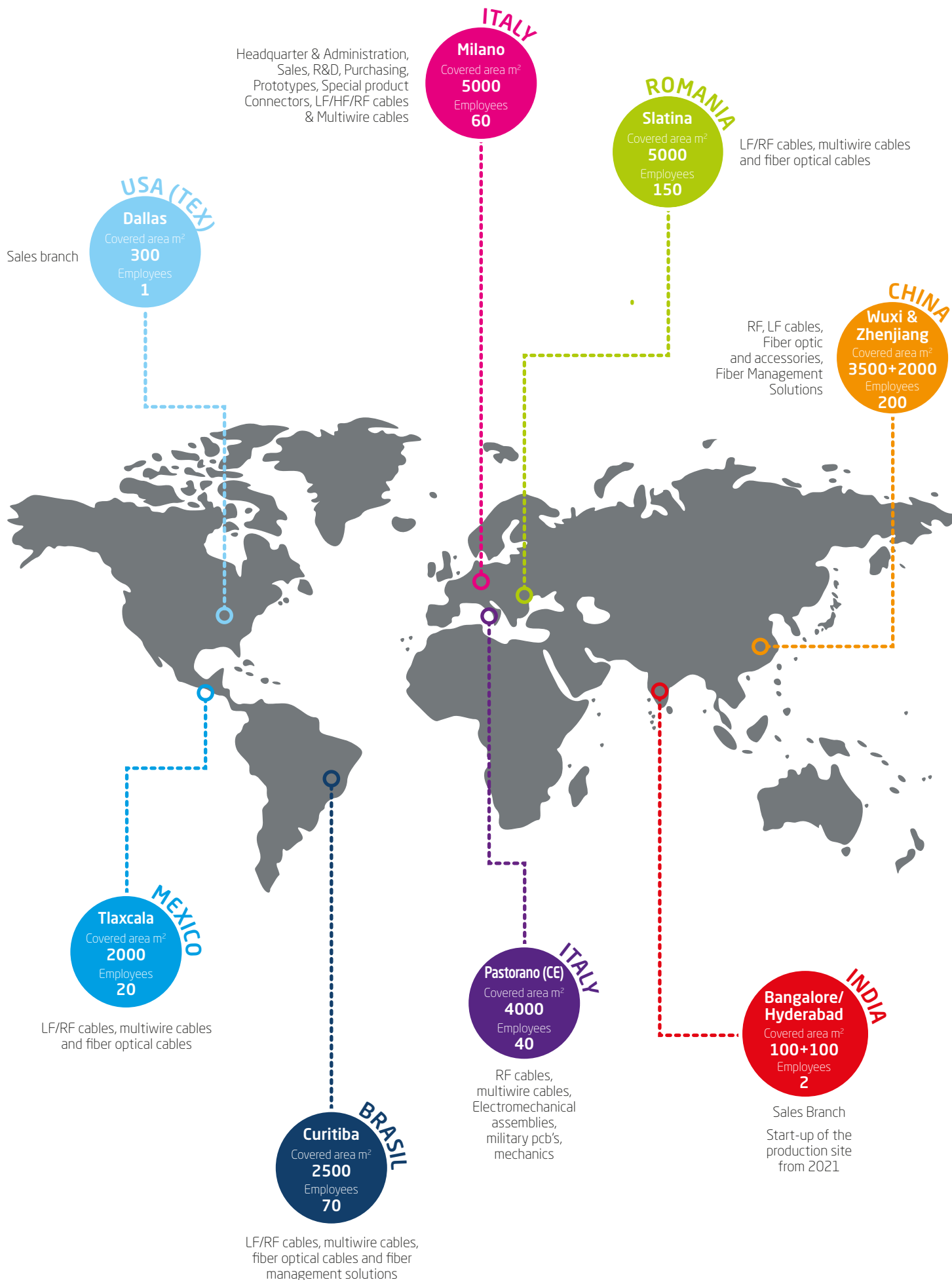*Representative renderings. Photos can be viewed in CPE for security reasons

ITALY
Milano
Covered area m²
5000
Employees
60

Headquarter & Administration, Sales, R&D, Purchasing, Prototypes, Special product Connectors, LF/HF/RF cables & Multiwire cables

ROMANIA
Slatina
Covered area m²
5000
Employees
150

LF/RF cables, multiwire cables and fiber optical cables

USA (TEX)
Dallas
Covered area m²
300
Employees
1

Sales branch

CHINA
Wuxi & Zhenjiang
Covered area m²
3500+2000
Employees
200

RF, LF cables, Fiber optic and accessories, Fiber Management Solutions

MEXICO
Tlaxcala
Covered area m²
2000
Employees
20

LF/RF cables, multiwire cables and fiber optical cables

ITALY
Pastorano (CE)
Covered area m²
4000
Employees
40

RF cables, multiwire cables, Electromechanical assemblies, military pcb's, mechanics

INDIA
Bangalore/ Hyderabad
Covered area m²
100+100
Employees
2

Sales Branch

Start-up of the production site from 2021

BRASIL
Curitiba
Covered area m²
2500
Employees
70

LF/RF cables, multiwire cables, fiber optical cables and fiber management solutions

CPE ITALIA Group Business figures

5%

4%

4%

3%

7%

7%

17%

53%
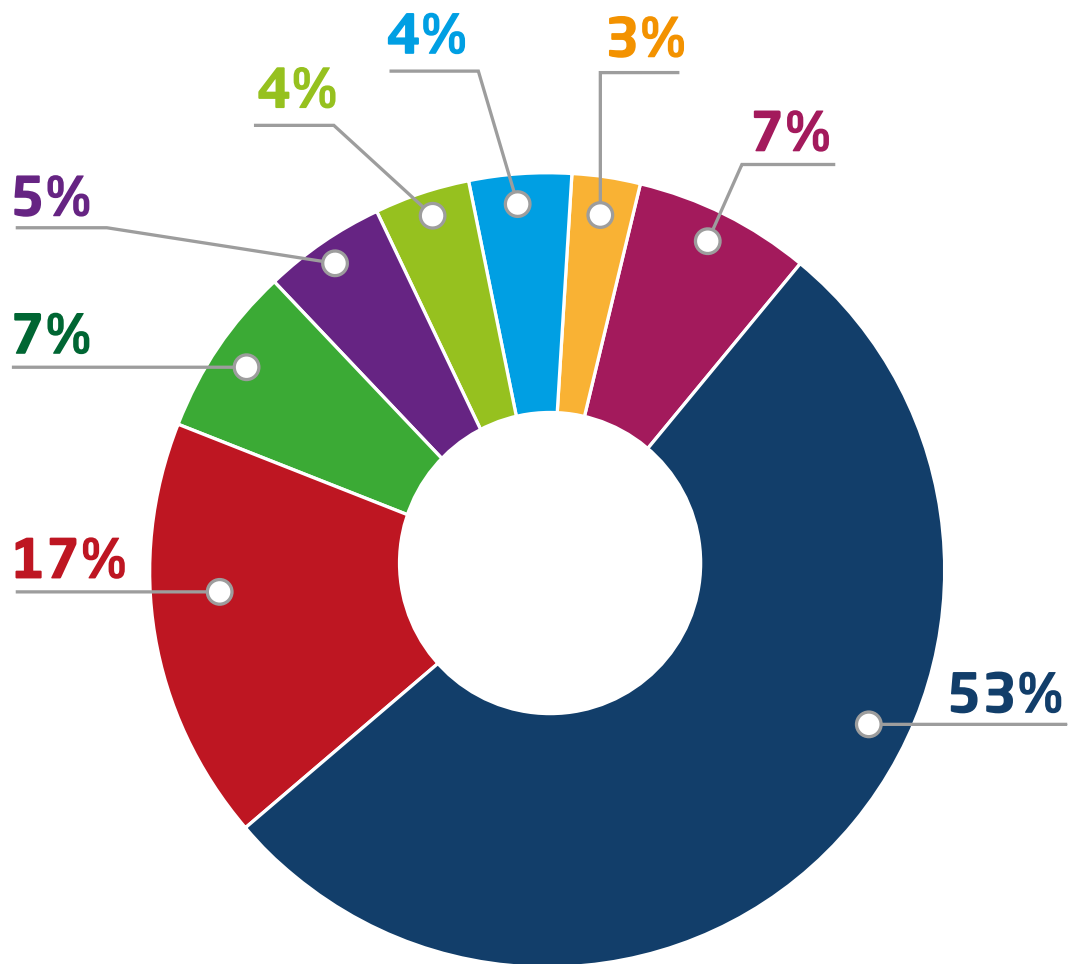
- Communication
- Energy
- Defense
- Oceanographic
- Transport
- Research institute
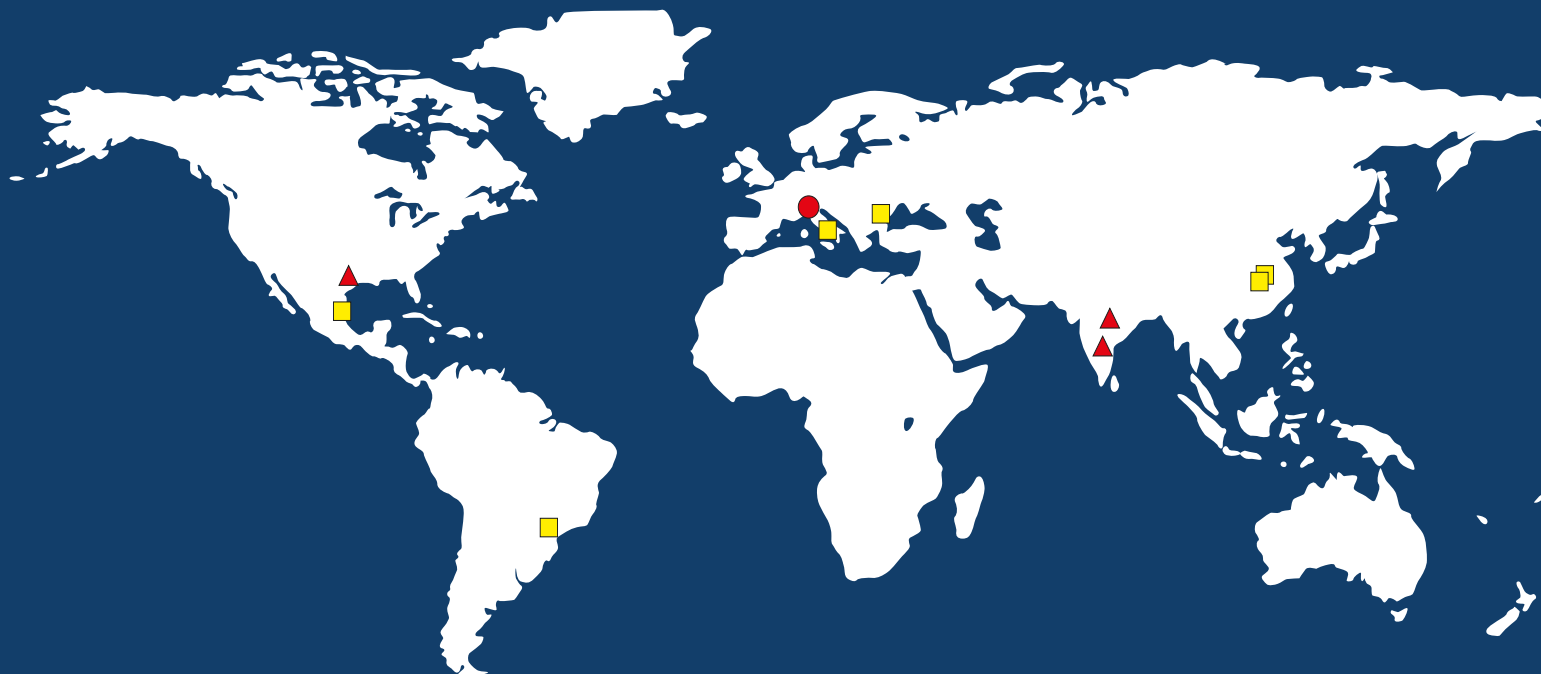- Broadcasting
- Others

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