

DMC 5.5 DIGITAL MODULAR CONNECTOR 5.5











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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, transforming 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 will always 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 and every 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
- total security as top priority
- amaze and engage

- guidelines, organization and discipline
- quality
 - Innovation and results that exceed customer expectations





40 YEARS INSIDE CONNECTIVITY MARKET













Digital Modular Connector 5.5 System

The CPE DMC 5.5 (Digital Modular Connector 5.5) is a customizable rectangular connector, which each customer can build according to his needs, depending on the number of the requested connections and current carrying capacity.

It uses the same philosophy of the 'Digital Building': elementary bricks connected to obtain a complex building. The DMC 5.5 consists of different types of plastic building blocks, with several types of contacts, in the same metallic frame. Each block, depending on its size, can contain a different number of pins or socket contacts. The socket hyperboloid shaped contacts increase the reliability of the connector and its current carrying capacity, ensuring a high mate / demate duty cycle and an extraordinary resistance to shock and vibration.

All these characteristics make the DMC 5.5 useful especially for military or railway environments, where telecom or data exchanging applications are necessary.

CPE developed plastic modules with 2, 3, 5, 17 contacts. and modules with 9 or 30 contacts are developed on request. The plastic blocks can accommodate two families of contacts: soldered contacts for cables or PCBs and crimped contacts for cables, each one with its own current carrying capacity.

CONNECTOR REQUIREMENTS:

- General Requirements: EN 45545; MIL-STD-1344; NF F16-101
- Operating Temperature: from -65°C to + 125°C
- Fire Testing: Classification: I2/F1
- Humidity: MIL-STD-1344 Method 1002 (EIA-364-31 procedure)
- Temperature Cycling: MIL-STD-1344 Method 1003 (EIA-364-32 procedure)
- Salt Spray: MIL-STD-1344 Method 1001 (EIA-364-26 procedure)
- Vibration: MIL-STD-1344 Method 2005 (EIA-364-28 procedure)
- Mechanical Shock: MIL-STD-1344 Method 2004 (EIA-364-27 procedure)
- Solderability (when applicable): IPC/EIA J-STD-002, category 3



DMC 5.5 Frame



Each CPE DMC 5.5 frame consists of two rails and two end caps. The more complex version uses jack screws, hoods, cable clamps and coupling rods. It can be customized according to the needs and applications of the customer and provided with lengths in multiple of steps equal to 5.5 mm.



Insulator



CPE develops different types of insulator blocks for accommodating different numbers of contacts: 2, 3, 5, 17 contacts as standard and 9, 30 contacts on customer request. The pictures/images shows some blocks.

They are made of Nylon with glass reinforcement and are placed in the aluminium frame.



DMC 5.5 Contacts



Each CPE DMC 5.5 plastic module can accomodate two different type of male / female contacts: solder type and removable crimp type (clip, cloc). The female contact use the HYPERBOLOID technology. The distinguishing feature of the HYPERBOLOID socket is the hyper-boloidshaped sleeve formed by straight wires strung at an angle to the longitudinal axis. Viewed from the side, you see a curve defined by a series of apparent short straight line segments which are tangent lines to points along a hyperbolic curve. This geometry provides for a design which has a decreasing circumscribed circle when viewed from the entry. It begins larger than the pin acceptance diameter and is less than this same diameter at the center. When the pin is inserted into this sleeve, the wires stretch, well within elastic limits, to accommodate it. In so doing, the wires wrap themselves around the pin providing a number of continuous line contact paths.

- VLIF (Very Low Insertion Force)
- Extraordinary Resistance to Shock & Vibration.
- Duty Cycle Exceeding 100,000 Mate/ Demate.
- Low Contact Resistance.
- Improved Current Carrying Capacity.
- Highest Reliability.

Different contact diameters used are: 1 mm, 1.2 mm, 1.5 mm, 2.5 mm and 3.5 mm. CPE provides soldered contacts for cables or PCBs and removable crimped contacts for cables, each one with its own current carrying capacity. Tables 1, 2, 3 show some electrical and mechanical characteristics of the used contacts.



EXAMPLE Crimp Contact «CLOC»



EXAMPLE Crimp Contact «CLIP»





Tab. 1

PIN CONTACT DIAMETER [mm]	CONTACT MAX ENGAGEMENT FORCE MIL-STD-1344 method 2014 (procedure EIA 364-37)				
	Force [g]				
1	40				
1.2	90				
1.5	160				
2.5	400				
3.5	850				

Tab. 2

PIN CONTACT	CONTACT RESISTANCE (1mA) MIL-STD-1344 method 3004 (procedure EIA 364-06) [mΩ]	CURRENT RATING (25°C) IEC 512-3 Test 5b				
DIAMETER [mm]		Solder contact	Crimp contactclip	Crimp contact-cloc		
1	< 2.5	9	9	_		
1.2	< 2.5	9	_	-		
1.5	< 2.5	20	20	15		
2.5	< 1.0	40	-	35		
3.5	< 0.8	57	37	37		

Tab. 3

PIN CONTACT DIAMETER	ACCEPTED AWG FOR REMOVABLE CONTACT CRIMP (for crimping accessories see 'crimp modules' paragraph)				
[mm]	Crimp contact-clip	Crimp contact-cloc			
1	AWG 16-20 AWG 20-24	-			
1.2	-	-			
1.5	AWG 16-20 AWG 14 AWG 20-24	AWG 16-20 AWG 20-24			
2.5	_	AWG 14-16 AWG 12 AWG 10-12			
3.5	AWG 10-12 10mm² cable	AWG 14-18 AWG 10-12			



Material and Finishing Specifications

INSULATING MODULE

Polyamide 66, 25% glass filled, black color, UL94 VO classified, compliant with EN 45545-2 (Hazard Levels HL1 – HL2 – HL3, for requirement sets R22 and R23) and NF F16-101 (Classification: I2/F1).

Oľ

Polyphenylenesulphide (PPS), 40% glass reinforced, black color, type BST-40F in accordance with MIL-M-24519.

FRAME

- Rail: Stainless Steel AISI 303 (ASTM-A-582)
- HeaderBlock:

Zinc Alloy ZAMA G-Zn Al4 per UNI EN 1774

Oľ

Polyamide 66, 25% glass filled, black color, UL94 VO classified

or

Polyphenylenesulphide (PPS), 40% glass reinforced, black color, type BST-40F in accordance with MIL-M-24519.

- *Guiding Pin:* Brass CuZn39Pb3 finished with white Chrome CR3 on 12-15 µm Zn
- Coded Guide: Brass CuZn39Pb3 (CW614N per EN 12164), finished with white Chrome CR3 over 5-7 μm Zn per QQ-Z-325 type 2 class 3 (ASTM-B-633 Type 2)
- Guiding Floating Header Block: Zinc Alloy ZAMA G-Zn Al4 per UNI EN 1774
- Floating Washer: Brass CuZn39Pb3 finished with white Chrome CR3 on 12-15 µm Zn
- Modules Positioner: Polyamide 66, 25% glass filled, black color, UL94 VO classified, compliant with EN 45545-2 (Hazard Levels HL1 HL2 HL3, for requirement sets R22 and R23) and NF F16-101 (Classification: I2/F1).

HYPERBOLOID SOCKET CONTACT

- Elastic element (Wires):
 - Standard

Berillium-Copper (CuBe per ASTM B 197) or Phosphor – Bronze (CuSn6P) per ASTM B139 plated with Gold, 0.25 μ m, over Nickel, 2 μ m, per SAE AMS-QQ-N-290, class 1, over Copper, 1 μ m, per SAE-AMS-2418 or ASTM B734

• Military

Berillium-Copper (CuBe per ASTM B 197) or Phosphor – Bronze (CuSn6P) per ASTM B139 plated with Gold, 1.27 µm, per ASTMB488 Type II, Class 1.27, Code C, over Nickel, 2 µm, per SAE AMS-QQ-N-290 over Copper, 1 µm, per SAE-AMS-2418 or ASTM B734



- Inner Sleeve, Front Sleeve: Brass according to ASTM-B-455 Alloy UNS C38500, Rif. ISO CuZn39Pb3 ,plated with Nickel, 2 µm, per SAE AMS-QQ-N-290 class 1 , form SD, over Copper, 1 µm, per SAE AMS 2418 or ASTM B734
- Rear Tail:
 - a) Dip solder and solder cup: Brass per ASTM-B-455 Alloy UNS C38500, Rif. ISO CuZn39Pb3, plated with Gold, 0.15 μm, per ASTM-B-488- type II - grade C, over Nickel,2 μm, per SAE AMS-QQ-N-290, class 1, over Copper,1 μm, per SAE-AMS-2418 or ASTM B734
 - b) Crimp Termination: Brass per ASTM-B-121 Alloy UNS C35300, Rif. ISO CuZn35Pb2, plated with Gold, 0.15 μm, per ASTM-B-488- type II - grade C, over Nickel,2 μm, per SAE AMS-QQ-N-290, class 1, over Copper,1 μm, per SAE-AMS-2418 or ASTM B734

PIN CONTACT

- Standard
 - a) Dip solder and solder cup: Brass per ASTM-B-455 Alloy UNS C38500, Rif. ISO CuZn39Pb3, plated with Gold, 0.25 μm, per ASTM-B-488- type II - grade C, over Nickel, 2 μm, per SAE AMS-QQ-N-290, class 1, over Copper, 1 μm, per SAE-AMS-2418 or ASTM B734
 - b) Crimp Termination: Brass per ASTM-B-121 Alloy UNS C35300,
 Rif. ISO CuZn35Pb2, plated with Gold, 0.25 μm, per ASTM-B-488- type II grade C, over Nickel, 2 μm, per SAE AMS-QQ-N-290, class 1, over Copper,1 μm, per SAE-AMS-2418 or ASTM B734
- Military
 - a) Dip solder and solder cup: Brass per ASTM-B-455 Alloy UNS C38500, Rif. ISO CuZn39Pb3, plated with Gold, 1.27 μm, per ASTM-B-488- type II - grade C, over Nickel, 2 μm, per SAE AMS-QQ-N-290, class 1, over Copper, 1 μm, per SAE-AMS-2418 or ASTM B734
 - b) Crimp Termination: Brass per ASTM-B-121 Alloy UNS C35300, Rif. ISO CuZn35Pb2, plated with Gold, 1.27 μm, per ASTM-B-488- type II - grade C, over Nickel, 2 μm, per SAE AMS-QQ-N-290, class 1, over Copper, 1 μm, per SAE-AMS-2418 or ASTM B734

PLASTIC HOOD

Polyamide 66, 25% glass filled, black color, UL94 VO classified. Compliant with EN 45545-2 (Hazard Levels HL1 – HL2 – HL3, for requirement sets R22 and R23) and NF F16-101 (Classification: I2/F1).







	ORDERING CODE		*	С	*	/	***
«()»	Connector type Plug Receptacle	M R					
SERIES Plug & receptacle connectors with	Series Contact surface treatment						
Floating hardware Metal side heads	Gold standard Gold as for MIL-DTL-55302	S M					
	Element progression						

EXAMPLE "C" SERIES CONNECTOR

MCS/2Um-4Pm



C SERIES PLUG CONNECTOR



C SERIES RECEPTACLE CONNECTOR





	ORDERING CODE		*	E	*	/	***
<e» SERIES</e» 	Connector type Plug Receptacle	M R					
ack & Panel with uiding Floating ardware	Series Contact surface treatment						
im metal side eads with 11,2mm ositioning guide	Gold standard Gold as for MIL-DTL-55302	S M					
	Element progression						

NOTE - The positioning indications of the modules are vertical

EXAMPLE "E" SERIES CONNECTOR

MES/14Qm

g h

S h



E SERIES PLUG CONNECTOR



E SERIES RECEPTACLE CONNECTOR

Dimensions are in mm.

RES/14Qf





«F»	
SERIES	-

Shielded Connector that can be coupled with C & E series receptacle connectors

Plug connectors with guiding

Floating hardware

Slim metal side heads with 11,2mm positioning guide

ORDERING CODE		*	F	*	/	***
Connector type Plug	M					
Series						
Contact surface treatment						
Gold standard	S					
Gold as for MIL-DTL-55302	Μ					
Element progression						

NOTE - The positioning indications of the modules are vertical

EXAMPLE "F" SERIES CONNECTOR

MFS/14Qm



RCS/14Qf or RES/14Qf



F SERIES PLUG CONNECTOR







	ORDERING CODE			*	G	*		/		**:
:G» ERIES	Connector type Plug Receptacle	M R]				-		-	
ck & Panel Inectors with ding Floating	Series Contact surface treatment									
dware	Gold standard	M								
n plastic side ads with 11,2mm sitioning guide	Element progression									

NOTE - The positioning indications of the modules are vertical

EXAMPLE "G" SERIES CONNECTOR

MGS /14Qm

Ra

gu

he



G SERIES PLUG CONNECTOR



G SERIES RECEPTACLE CONNECTOR





≪\/	√Z≫
SE	RIES

In-line connectors with metal hood Plug and receptacle with guiding Floating

ORDERING CODE	* WZ * *** / ***
Connector type Plug Recentacle	м
Series	
Contact surface treatment	
Gold as for MIL-DTL-55302	S
Cable clamp	
Cable clamp PG16 ø 8.0 ø 14.0 1	16
Double Cable clamp PG16 ø 8.0 ø 14.0	32
Element progression	

EXAMPLE "WZ" SERIES CONNECTOR

MWZS/1Um-7Pm -2Km 2Um











	ORDERING CODE * D * /	***
«D» SERIES	Connector typePlugMReceptacleR	
Plug & Receptacle connectors without	Series	
Plastic side heads	Gold standardSGold as for MIL-DTL-55302M	
	Element progression	

EXAMPLE "D" SERIES CONNECTOR



D SERIES PLUG CONNECTOR



D SERIES RECEPTACLE CONNECTOR





ORDERING CODE H* *** * * *** * *** * ** Connector type Plug М Receptacle R Series Without coding НΟ With coding Η1 Contact surface treatment Gold standard S Gold as for MIL-DTL-55302 М Element progression before screw extractor_ Extractor «H» Type 2: standard (2 steps) А Type O: special (2 steps) S SFRIFS Element progression after screw extractor _ Connectors Plug with Standard lengths plastic Hood RECEPT. PROGRESSION PLUG (in steps: 1 step= 5,50mm) extr.2 or 0 (with cover) Plug & receptacle 5-2-5 79 83,5 1 connectors that can 100 95,5 6,5-2-6,5 2 be provided with and 100 95,5 7-2-6 З without coding guides 111 106,5 8-2-7 4 127,5 123 9-2-9 5 138,5 134 10-2-10 6 Quantity and size of cable clamp (only for plug) AA n°1 standard adjustable cable clamp ΒB n°2 standard adjustable cable clamps CC n°1 3/4" GAS cable clamp n°2 3/4" GAS cable clamps DD EE n°1 1" GAS cable clamp FF n°2 1" GAS cable clamps n°2 adjustable cable clamps 45° GG

H1 Series: Coding _____

Leave blank if standard 6F coding is required













«HO» Series













«H1» Series



NUMERICAL CODE LATER CHANGE AS ALPHABETICAL CODE

3-6 and **C-F** are not represented but can be used as a key to codes.













With coding









MЗ



5 With coding

Dimensions are in mm.

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H1 Series: Coding _____

Leave blank if standard 6F coding is required

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«KO» Series















«K1» Series



NUMERICAL CODE LATER CHANGE AS ALPHABETICAL CODE

3-6 and **C-F** are not represented but can be used as a key to codes.





«K1» Series













	RING CO	DDE	* ZX	*	/ **	* - [* –	- ***	/
Connecto Plug Recepta	or type cle	M R							
Series <u> </u>									
Contact s Gold star Gold as f	ourface treati ndard for MIL-DTL-5	ment 55302	S M						
Element (progression b	efore screw	extractor						
Element p Extractor Type 2: s	brogression b standard (2 s	teps)	extractor						
Element p Extractor Type 2: s Type 0: s	progression b standard (2 s special (2 ste	teps) ps)	A S						
Element p Extractor Type 2: s Type 0: s	progression b standard (2 si special (2 ste progression a	teps) ps) ofter screw ex	A S						
Element p Extractor Type 2: s Type 0: s Element p	standard (2 s special (2 ste	efore screw teps) ps) ifter screw e:	A S						
Element p Extractor Type 2: s Type 0: s Element p Standard PLUG (with cover)	brogression b standard (2 st special (2 ste brogression a lenghts RECEPT.	teps) ps) ofter screw ex prog (in steps: 1 step=	A S xtractor RESSION = 5,50mm) extr.2 or 0						

(when cover)		(in steps: ± step s, sommily extine or o	
83,5	79	5-2-5	1
100	95,5	6,5-2-6,5	2
100	95,5	7-2-6	3
111	106,5	8-2-7	4
127,5	123	9-2-9	5
138,5	134	10-2-10	6



Connectors Plug with screw locking device without hood

Connectors without coding guides



EXAMPLE "ZX" series connector









Type «B» element Ø3,5mm contacts



2 STEPS x 5,5 mm





Bm= 2 Positions module male solder contacts





Bf= 2 positions module female solder contacts















Bt= 2 Positions module female P.C.B.





Type «K» element Ø2,5mm contacts



Kf= 3 positions module female solder contacts







Kp= 3 positions module male P.C.B.



Ks= 3 positions module female P.C.B.











Type «P» element Ø1,5mm contacts



1 STEP x 5,5 mm



100000

Pf= 5 positions module female solder contacts

Pm= 5 positions module male solder contacts



Ø1,6(hole)





Pp= 5 positions module male P.C.B.





Ps= 5 positions module female P.C.B.



22

Ø1,6(hole)

States



Dimensions are in mm.

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Type «U» element Ø1,2mm contacts





Type «C» element circular connectors

Ш









CAm= 4 way male circular metal connector







ЪС









CBm= 8 way male circular metal connector













Dimensions are in mm.

 \bigcirc



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Type «C» element circular connectors





Type «C» element circular connectors









CDm= 10 way male circular metal connector









CDf= 10 way female circular metal connector







CGm= 18 way male circular metal connector











CGf= 18 way female circular metal connector



Dimensions are in mm.



282



Type «C» element circular connectors







CHm= 22 way male circular metal connector





DATA LINK



CHf= 22 way female circular metal connector







Clm= 30 way male circular metal connector





Clf= 30 way female circular metal connector







Ce = Empty module for circular metal connector (TYPE CD - CG - CH -CI)











De= 2 positions module empty







Spare contact reference							
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302				
Male contacts Dm:	(AWG 14-18)	17.000.500-402	17.001.600-B28				
Female contacts Df:	(AWG 14-18)	17.000.500-403	17.001.500-B29				
Male contacts Dmx:	(AWG 10-12)	17.000.500-553	17.001.600-B30				
Female contacts Dfx:	(AWG 10-12)	17.000.500-554	17.001.500-B31				

Tools reference

Crimping tool with positioner: 83.010.900-492 Extraction tool for Ø3,5mm: 83.810.000-457







22





Spare contact reference						
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302	Crimping		
Male contacts Nm:	(AWG 14-16)	17.000.500-B26	17.001.600-B32	83. 5. ture et la		
Female contacts Nf:	(AWG 14-16)	17.000.500-B27	17.001.500-B33	Extraction 83		
Male contacts Nmx:	(AWG 10-12)	17.000.500-400	17.001.600-B34			
Female contacts Nfx:	(AWG 10-12)	17.000.500-401	17.001.500-B35			



Dimensions are in mm.





Me= 3 positions module empty







	Tools reference			
	Crimping tool with positioner:			
_	Extraction tool for Ø2 5mm			
	83.810.000-491			

Spare contact reference					
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302		
Male contacts Mm:	(AWG 14-16)	17.000.500-B26	17.001.600-B32		
Female contacts Mf:	(AWG 14-16)	17.000.500-B27	17.001.500-B33		
Male contacts Mmx:	(AWG 10-12)	17.000.500-400	17.001.600-B34		
Female contacts Mfx:	(AWG 10-12)	17.000.500-401	17.001.500-B35		





Se= 5 positions module empty







Spare contact reference			
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302
lale contacts Sm:	(AWG 16-20)	17.000.500-972	17.001.600-B36
emale contacts Sf:	(AWG 16-20)	17.000.500-866	17.001.500-B37
1ale contacts Smw:	(AWG 20-24)	17.000.500-B23	17.001.600-B38
emale contacts Sfw:	(AWG 20-24)	17.000.500-B22	17.001.500-B39

Tools reference

Crimping tool with positioner: 83.010.000-456 Extraction tool for Ø1,5mm: 83.810.000-251

Dimensions are in mm.

Μ

F

F





Me= 3 positions module empty







e	contact referenc	e	Tools reference
	Gold standard	Gold as for MIL-DTL-55302	Crimping tool with positioner:
	17.000.500-972	17.001.600-B36	83.010.000-456
	17.000.500-866	17.001.500-B37	Extraction tool for Ø1,5mm: 83.810.000-251
	17.000.500-B23	17.001.600-B38	
	17.000.500-B22	17.001.500-B39	Dimensions are in

Dimensions are in mm.

Male contacts Rm:	(AWG 16-20)	17.000.500-972	17.001.600
Female contacts Rf:	(AWG 16-20)	17.000.500-866	17.001.500
Male contacts Rmw:	(AWG 20-24)	17.000.500-B23	17.001.600
Female contacts Rfw:	(AWG 20-24)	17.000.500-B22	17.001.500
1			

Spar

AWG range

Description











Spare contact reference				
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302	
Male contacts Qm:	(AWG 20-24)	17.000.200-502	17.001.600-B40	
Female contacts Qf:	(AWG 20-24)	17.000.150-503	17.001.500-B41	
Male contacts Qmw:	(AWG 16-20)	17.000.200-366	17.001.600-415	
Female contacts Qfw:	(AWG 16-20)	17.000.200-365	17.001.500-414	

Tools reference

Crimping tool with positioner: 83.010.000-456 Extraction tool for Ø1,5mm: 83.810.000-251



Type «V» element Ø1mm contacts Clip



Vf= 17 positions module male crimp for AWG 16-20



Vmw= 17 positions module male crimp for AWG 20-24







Vfw= 17 positions module male crimp for AWG 20-24

Vef= 17 position module female empty

Vem= 17 positions module male empty









Tools reference					
Crimping tool with positioner: 83.010.900-494					
Extraction tool for Ø1mm: 83.810.000-252					

Spare contact reference					
Description	AWG range	Gold standard	Gold as for MIL-DTL-55302		
Male contacts Vm:	(AWG 16-20)	17.000.200-370	17.001.600-409		
Female contacts Vf:	(AWG 16-20)	17.000.200-367	17.001.500-426		
Male contacts Vmw:	(AWG 20-24)	17.000.200-940	17.001.600-B42		
Female contacts Vfw:	(AWG 20-24)	17.000.200-A04	17.001.500-B43		



COAXIAL MODULES





Type «Y» coaxial element SMA connection

2 STEP x 5.5 mm







OPTICAL MODULES





Type «O» element optical contacts





Customized solutions for railway application



CPE WORLDWIDE





CPE ITALIA SPA (HEADQUARTER)

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