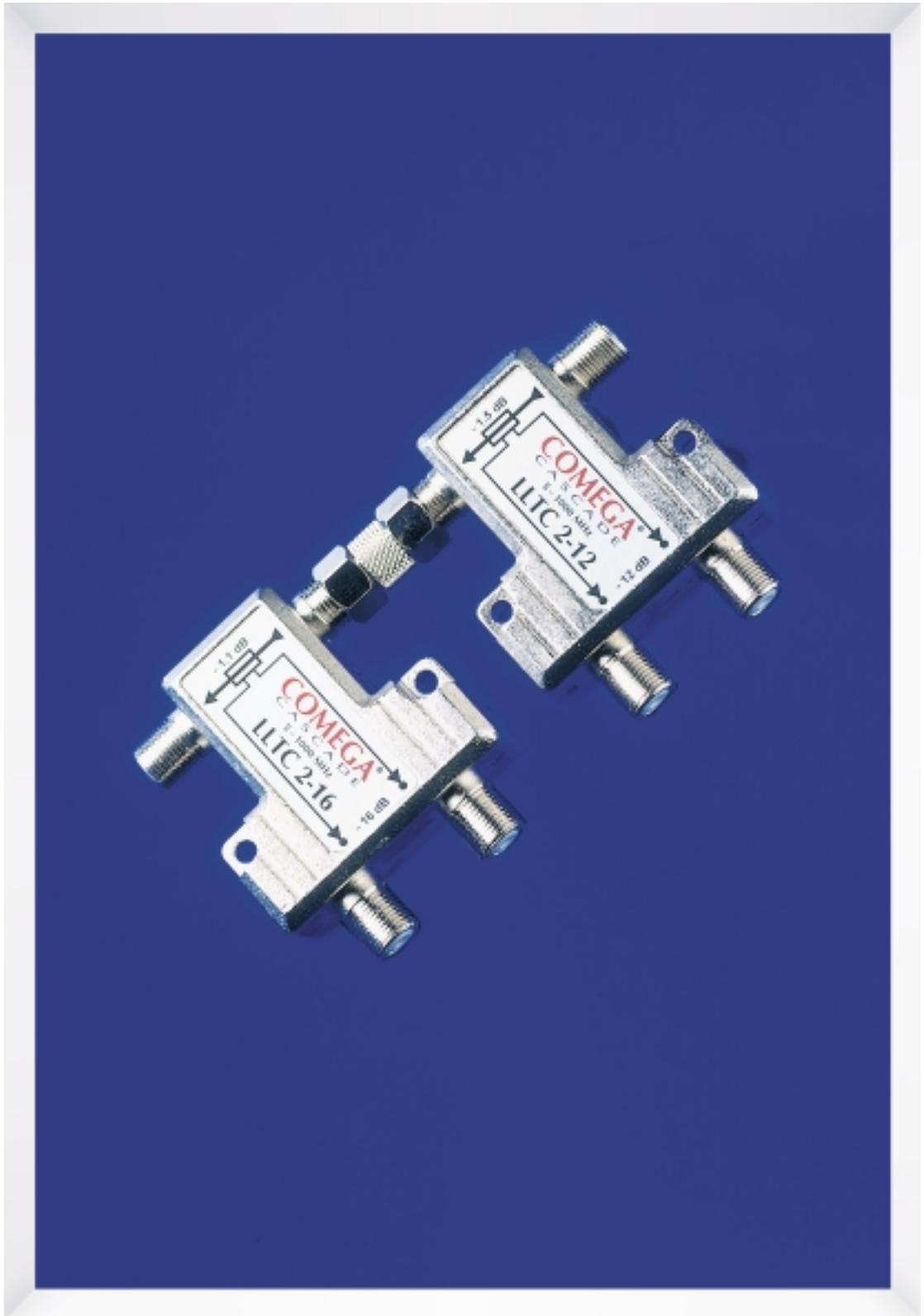


COMEGA®



Cascade

COMEGA® Cascade - the modular passive system



Cascade is designed and developed to meet the needs for flexible internal distribution components, fulfilling the CENELEC CAT A/B standard. New data services delivered via CATV, MATV and SMATV require optimised RF performance across the low and high frequency spectrum with RFI immunity to avoid noise ingress.

COMEGA® Cascade is characterised by its compact design with the ability to fit heavy cables on the input/output connectors. Installers can **Cascade** the taps and splitters and thereby assemble 2-, 3-, 4- and 20-way splitters and taps meeting the specific needs of the internal distribution network. Overleaf, some applications and examples are shown as a design guide.

With the **COMEGA®** series, return loss and tap to tap isolation is optimised to maintain linearity of digital transmissions and suppression of adjacent tap signals.

COMEGA® Cascade passive line is very suitable for installations in blocks of flats, CATV networks and similar projects where heavy distribution cables are used.

We trust that the built-in-flexibility and our focus on making it possible to deliver high-class electrical data will help operators and installers alike trouble-free broadband transmissions for years to come.

COMEGA® Cascade - for future flexible internal installations

COMEGA splitters

Low loss Cascade

Type no.	Attenuation all ports dB (±0.25)			Isolation dB (±1)			Return loss dB (±1)		
	MHz			MHz			MHz		
	5-600	600-860	860-1000	5-600	600-860	860-1000	5-600	600-860	860-1000
 LLSC 02A	3.6	3.8	4.2	28	28	24	22	20	18
 LLSC 02B	3.6	3.8	4.2	28	28	24	22	20	18
LLSC 2 - 8	3.6 7.7	3.8 8.0	4.2 8.4	26	25	24	22	20	20

Terrestrial
and
Satellite IF

Type no.	Attenuation all ports dB (±0.5)			Isolation dB (±1)			Return loss dB (±1)		
	MHz			MHz			MHz		
	40-860	860-1750	1750-2300	40-860	860-1750	1750-2300	40-860	860-1750	1750-2300
 C-SAT 02A	3.8	4.8	5.7	22	24	17	15	12	12
C-SAT 02B	3.8	4.8	5.7	22	24	17	15	12	12

* AC/DC max 0.5A

COMEGA taps

Low loss Cascade



Type no.	Through loss dB (±0.25)			Tap loss dB (±0.75)			Isolation Tap to tap (2xLLTC) dB			Directivity* Tap to out dB	
	MHz										
	600-860 5-600		860-1000		600-860 5-600		860-1000		600-860 5-600		860-1000
LLTC 1-6	2.3	2.3	2.6	6.8	6.5	6.5	25	23	23	23	
LLTC 1-10	1.0	1.3	1.7	10.0	9.5	9.0	40	36	32	30	
LLTC 1-12	0.7	0.8	1.0	12.0	12.0	12.0	40	36	32	32	
LLTC 1-16	0.4	0.5	0.7	16.5	16.5	16.5	46	42	38	36	
LLTC 1-20	0.4	0.5	0.7	20.0	20.2	20.3	54	50	46	40	



Type no.	Through loss dB (±0.4)			Tap 1 loss dB (±1.0)			Tap 2 loss dB (±1.0)			Isolation Tap to tap dB			Directivity* Tap to out dB		
	MHz														
	600-860 5-600		860-1000		600-860 5-600		860-1000		600-860 5-600		860-1000		600-860 5-600		860-1000
LLTC 2 - 10	2.9	2.9	3.5	10.3	10.0	9.5	10.5	10.5	10.5	40	36	32	30		
LLTC 2 - 12	1.6	1.5	1.7	12.5	12.5	12.8	12.9	12.8	12.6	50	40	38	32		
LLTC 2 - 16	0.8	1.0	1.2	16.5	16.8	17.0	17.0	16.8	16.5	46	42	40	37		
LLTC 2 - 20	0.8	1.1	1.4	20.0	20.0	20.0	20.0	19.8	19.5	45	42	41	40		
LLTC 2 - 24	0.7	0.8	0.9	24.0	24.0	24.0	24.0	24.0	24.5	40	40	40	45		
LLTC 2 - 28	0.4	0.5	0.6	28.0	28.2	28.3	28.0	28.0	28.0	40	40	40	45		

Terrestrial and Satellite IF



Type no.	Through loss dB (±1.0)		Tap 1 loss dB (±2.0)		Tap 2 loss dB (±2.0)		Isolation Tap to tap dB		Directivity Out to tap dB				
	MHz												
	46-860		860-2150		40-2150		40-2150		40-860		860-2150		40-2150
C-SAT 2-10	4.0	5.0	10	10	30	20	20		**				
C-SAT 2-15	3.0	4.0	15	15	36	25	20		**				

* 40 - 1000 MHz - 1.5 / oct.

** AC/DC max 0.5A

Return loss: 5 - 40 MHz:

min. 20 dB

40 - 1000 MHz:

min. 20 dB -1.0 dB/oct.

40 - 2150 MHz:

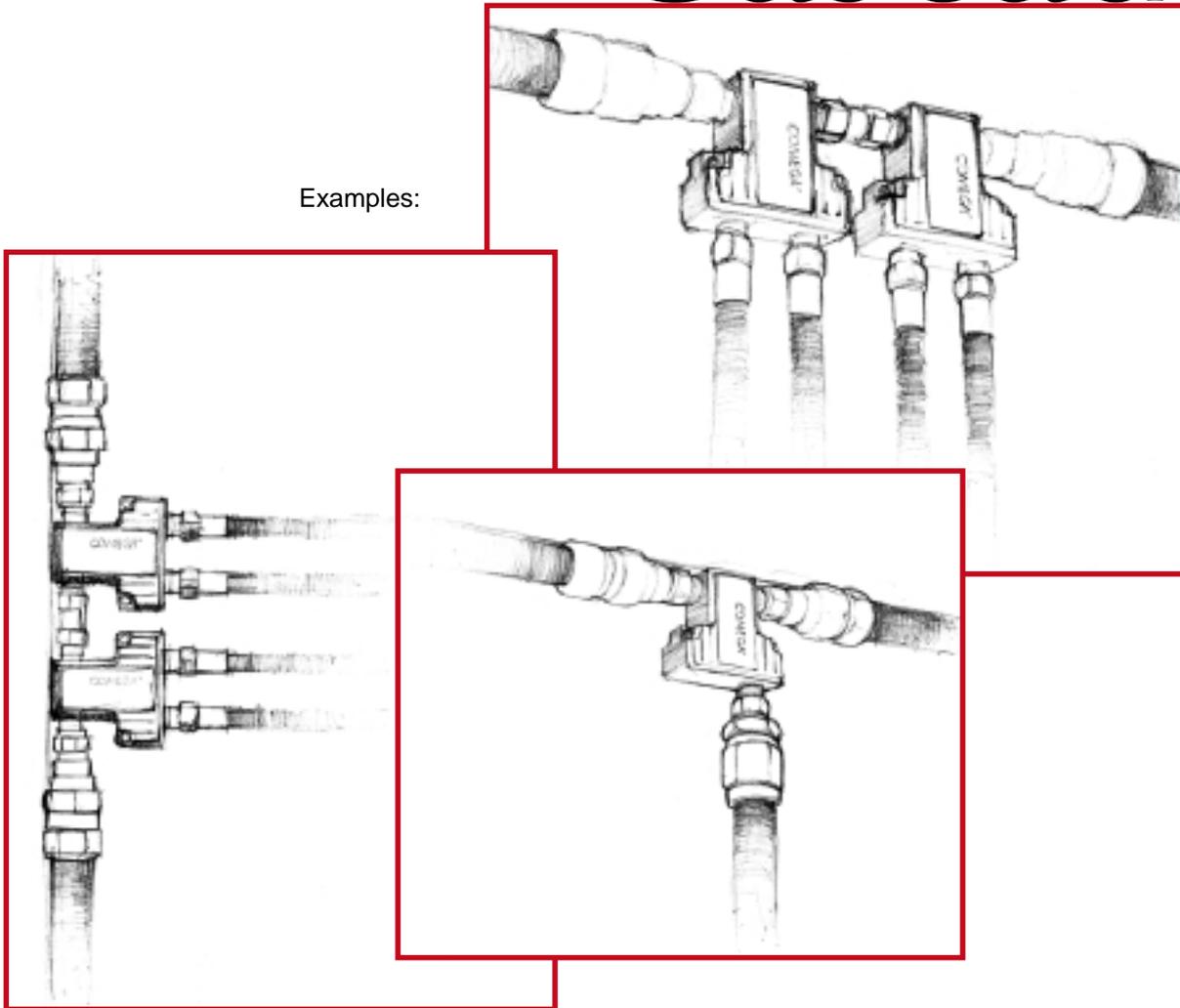
> 12 dB

RFi / Screening efficiency: 100 dB (5 - 1000 Mhz) > Class A

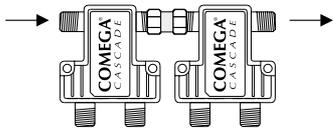


Cascade

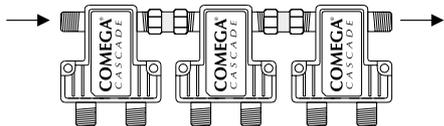
Examples:



Combination examples..:



2 x LLTC 2-12 **4 tap**, att.: 2 x 12 dB + 2 x 13.5 dB
Through loss: 3 dB



2 x LLTC 2-16 **6 tap**, att.: 2 x 16 dB + 2 x 17 dB + 2 x 14 dB
1 x LLTC 2-12 Through loss: 3 dB

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