

ELine 1200® EC7 – Multimedia up to 1.5 GHz via twisted pairs!

If a passive cabling system is connected with the term “multimedia”, the question which immediately arises is “how does that all go together?” – after all, the term is more well-known in connection with products from entertainment electronics.

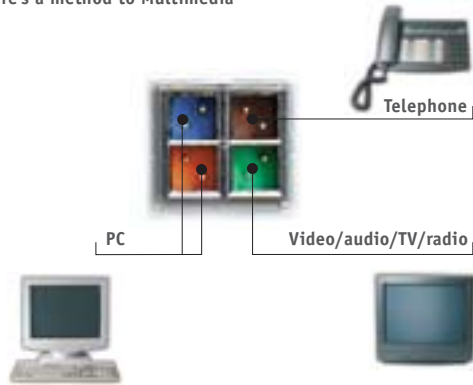
But ELine 1200® EC7 really does manage multimedia, because it allows the parallel use of different media via structured in-house cabling: data, voice, image and even television.



ELine 1200® EC7 – the concept

Since the early 1990s, KERPEN has been offering 100 Ω data cables of the MegaLine® series with individual shielding of each pair. This principle was the model for the chamber system used in the ELine 1200® plug connector.

There's a method to Multimedia



Cable and plug connector form the ideal symbiosis: 4 pairs = 4 chambers with GHz performance.

The advantages are obvious: Consistent separation of the signal paths in an ideally matched system expands the possible applications in unimagined ways.

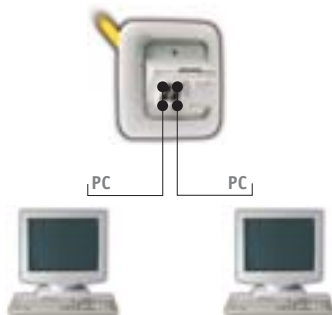
It is thus also possible to use two data services of Class A to F simultaneously via only one cable and one EC7 jack. However, different services such as telephone and data services can also be operated in parallel without the risk of NEXT problems. These possibilities are referred to under the name of “cable-sharing” or “service-sharing”.

The units are connected via appropriately matched 4-, 2- or 1-pair ELine™ EC7 work area cords:



The 4 individually shielded chambers, each containing one pair, make the EC7 plug connector an ideal improvement on individually shielded S/FTP cables.

2 data services of Class A to F



Mixed telephone/data services





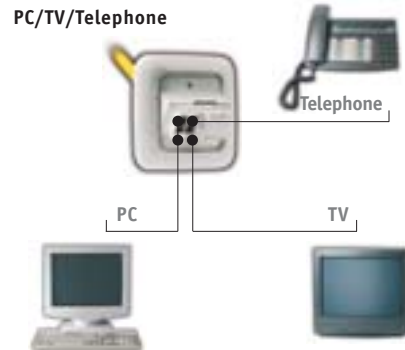
TV via twisted pairs!

The task of transmitting analogue CATV services via twisted pairs is technically very demanding. In order to be able to transmit all channels, transmission frequencies of up to 862 MHz are necessary – this demands the utmost in reserve performance of the system and especially good attenuation characteristics.

During development, ELine 1200® EC7 was optimised especially for this purpose, the current product range providing a wide range of tools for transmitting CATV signals.

The world of twisted pairs (100 Ω) is connected to the world of television (75 Ω) via twisted passive work area cords with an integrated balun.

In contrast to conventional solutions, outlets can be used flexibly: Thus, from being a telephone or data outlet, EC7 is easy to turn into a TV connection later if necessary.



The reduction in the number of cables and outlets required usually allows reductions in the costs for cable channels, switching cabinets etc. “Service-sharing” via ELine 1200® EC7 allows you to cut costs.

Our experience!

ELine 1200® EC7 includes many innovative new ways of going about things. This is why it could come as a surprise to discover that KERPEN introduced it into the market as early as 1996. Since then we have cooperated closely with our customers at all times, so that many of our customers' ideas on adding to or optimising our products have been included into the system concept over the last years.

Thus, ELine 1200® EC7 now includes a sophisticated system solution which follows the market requirements and is unparalleled at present!

As a four-lane data highway, ELine 1200® EC7 provides true multimedia “to the desk”.

This is appreciated by customers all over the world – we can refer you to a widely installed basis with top references. Why not ask us for our up-to-date list?



Economy!

There is a price to pay for “high-tech” and “added value”. In the long run, it is not necessary for the system to cost more than conventional systems, which usually require a special cable and a special plug connector for each service.

ELine 1200® EC7 allows you to save up to 50 % of the cables, plug connectors, outlets and patch fields.

Multiple use reduces the system costs by between 15 and 30 % (depending on the services used).

New jack design!

The ELine 1200® EC7 jack has been completely redesigned. Its robust full-metal design allows it to be integrated completely into the panel and the outlets used for the ELine™ PREMIUM series. This allows the use of up to 3 EC7 jacks in the PREMIUM outlet and up to 48 ports on one height unit in the switching cabinet! The PREMIUM series also allows the mixed equipping of outlets and panel with the Cat. 6 jacks ELine 250® RJ45 S and ELine 250® RJ45 U (mixed-media application).

Last but not least, the assembly time is reduced dramatically in comparison with the EC7 jack used up to now! The new jack consists of 3 individual elements only, thus allowing rapid and extremely easy assembly. The completely redesigned ELine 1200® EC7 jack makes assembly child's play and further improves performance while leaving the interface unchanged!

Backward-compatible!

Our multimedia system has been put to widespread use over the years and made many friends. This is why it was especially important for us to keep the system backward-compatible to the old range although the jack was redesigned:

It goes without saying that all patch cords and work area cords ever supplied also fit into the new EC7 jack. Adapter clips allow the retrofitting of existing panels from the old ELine™ outlet/panel program.

More bandwidth, more flexibility with regard to connections, a more reliable future and more unbeatable value for money are not provided by any other system solution!



ELine 1200® EC7 jack, pair separator from front and strain relief

Technical data



Compatible outlets/panels etc.

- See PREMIUM series
- ELine 1200® EC7 (old series) via ELine™ mounting clip (Article number: 9ZE30021)

Category

- Better than Category 7/Class F according to ISO/IEC 11801 and EN 50173 2nd Edition
- Better than IEC 15018 SOHO standard

Jack type

- EC7 multimedia jack
- New design: Full metal body 3-part jack set
- Shielded
- Connection method: push-in, gas-tight IDC
- Shielding: 360°
- Recommended conductors: AWG 22 /23)
- Colour coding

