TWINLINK®

HIGH TEMPERATURE CONTROLLED IMPEDANCE TWISTED PAIR CABLES

-90°C TO +260°C

HIGH TEMPERATURES
CONTROLLED IMPEDANCE
LOW SIGNAL ATTENUATION
ELECTROMAGNETIC PROTECTION
COMPACT SIZE
REDUCED LINEAR WEIGHT

TWINLINK®
Data transmission in extreme conditions

4 impedances available: ***50/ 50/75/100 Ω***

CGP
CABLES FOR GLOBAL PERFORMANCE

TWINLINK®

HIGH TEMPERATURE CONTROLLED IMPEDANCE TWISTED PAIR CABLES

-90°C TO +260°C

TWINLINK® are controlled impedance paired cables that can withstand high temperatures. This range has been developed in our research centre with the electromagnetic compatibility and data transmission expertise of our engineers. **TWINLINK®** provides optimum signal transmission in extreme use conditions.

The **TWINLINK®** range is a true concentration of innovation with outstanding advantages: extreme temperature resistance, excellent electromagnetic protection, compact size, reduced linear weight, excellent abrasion resistance and excellent chemical resistance. **TWINLINK®** is used in cutting-edge applications in the defence and aerospace industries.

There are two **TWINLINK®** versions - FP et FA - and four different impedances:

TWINLINK® FP in fluoropolymer FEP for use -60°C/+200°C
TWINLINK® FA in fluoropolymer PFA for use -90°C/+260°C

We can also design miniature models in expanded PTFE.

PRODUCT DESCRIPTION

Conductor	Silver-plated copper core
Insulation	Fluoropolymer FEP or PFA
Screen	Silver-plated copper braid
Sheath	Fluoropolymer FEP or PFA

ELECTRICAL CHARACTERISTICS

Impedances 50 Ω/ 75 Ω/ 100 Ω/ 120 Ω
Operating voltage < 600 V

ELECTROMAGNETIC PROTECTION

Excellent electromagnetic protection
Protection screen by CuAg braid with 91% coverage

THERMAL CHARACTERISTICS

Operating temperature
TWINLINK® FP -60°C/+200°C
TWINLINK® FA -90°C/+260°C

MECHANICAL CHARACTERISTICS

Excellent abrasion resistance

CHEMICAL CHARACTERISTICS

Excellent oil, hydrocarbon and chemical and biological agent resistance

SIGNAL TRANSMISSION PROPERTIES

Impedance	50 Ω	75 Ω	100 Ω	120 Ω
Tolerance	**+/- 5 Ω**	**+/- 8 Ω**	**+/- 10 Ω**	**+/- 12 Ω**
Max. attenuation at 20 MHz	**30 dB/100 m**	**15 dB/100 m**	**5 dB/100 m**	**4 dB/100 m**
Transfer impedance at 1 MHz	5 to 25Ω/m			
Min. insulation resistance Working capacity Wave propagation speed	> 1 500 MΩ.km 40 to 90 pF/m 66 to 90%			
Operating voltage	< 600 V			

✔ **Contact us to define with our sales engineers the product best suited to your application.**

DIMENSIONS AND LINEAR WEIGHT

		Impedance 50 Ω		Impedance 75 Ω		Impedance 100 Ω		Impedance 120 Ω	
AWG	**Nominal stranding**	**Nom. diameter of the cable (mm)**	**Linear weight (kg/km)**	**Nom. diameter of the cable (mm)**	**Linear weight (kg/km)**	**Nom. diameter of the cable (mm)**	**Linear weight (kg/km)**	**Nom. diameter of the cable (mm)**	**Linear weight (kg/km)**
AWG 26	19 x 0.10	2.3	13.0	2.8	15.4	3.7	23.3	4.4	30.9
AWG 24	19 x 0.13	2.7	16.1	3.4	21.5	4.4	30.9	5.3	51.2
AWG 22	19 x 0.16	3.2	22.0	4.1	30.3	5.3	51.2	6.5	70.3

CGP SAS
62 route du coin - 42400 Saint-Chamond - FRANCE
Phone: +33 **(0)4 77 31 02 54** Fax: +33 (0)4 77 31 02 35
cgp@omerin.com

www.cables-cgp.com