



CASE STUDY

CABLE CARRIER SYSTEM WITHSTANDS HEAT, SUN, RAIN AND SNOW

APPLICATION OVERVIEW:

Temperature-resistant cables and cable carriers mean the larger-than-life size LED screen at Victory Plaza in Dallas functions despite heat, sun, rain and snow.

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A competitor's cables failed in low temperatures



A leading designer and developer of large-screen visualization solutions chose Energy Chain[®] cable carriers from igus[®] to house and protect vital Chainflex[®] continuous-flex fiber optic, power

and control cables on eight automated LED displays located at Victory Plaza, immediately outside the American Airlines Center in Dallas, Texas.

A tough, maintenance-free cable management solution was needed to withstand the continuous exposure to harsh weather conditions, such as extreme heat, sunlight, rain and even snow.

System E4 Energy Chains[®] are specially designed for high performance in rugged environments, making them perfectly suited to the 18-hour day, 360-days a year operating schedule. Like igus[®] entire line of Energy Chain[®] cable carriers, they are also maintenance-free, UV- and corrosion-resistant and extend the service life of cables and hoses. A total of eight System E4 Energy Chains[®] were used for the project: one on each 26-foot wide moving-screen display.

The cables of a leading competitor previously failed in this application, because they were not rated for temperatures below 40 degrees Fahrenheit. When subjected to such temperatures, the cables began to corkscrew and compromise the performance of the giant monitors. igus replaced the deteriorating cables - which only lasted 20,000 cycles or a mere 200 days - with Chainflex[®] continuous-flex cables approved for temperatures down to 30 degrees Fahrenheit.



“The igus® team rose to the occasion to help us find a perfect solution,” said a senior engineer. “The company really went above and beyond the call of duty by aiding us in remedying a situation that could have been a potential disaster for our customer. The Energy Chains® and cables were the low-maintenance solution we were looking for.”

More product information

[Chainflex® overview](#)

[Chainflex® Fiber Optic CFLG.6G LWL](#)

[Energy Chain® overview](#)

[System E4 Energy Chains®](#)

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