

## **OVERVIEW**

T10 is a full wall seamless aluminum trunk or feeder cable with a bonded composite construction. With the continuous bond of the center conductor to dielectric, dielectric to aluminum sheath and aluminum sheath to jacket, T10 cable exhibits enhanced mechanical properties.

## **ENHANCED PERFORMANCE**

### **T10 Specifications**

As a result of the composite construction, T10 has increased pull strength and sidewall pressure resistance. With the additional aluminum sheath support, T10 better resists kinking and flattening during installation. T10 can also be bent to a smaller radius (8x rather than 14x for non-bonded cable diameter).

Multiple bends and difficult installations both aerially and underground are more reliable with T10.

Initial core to sheath adhesion and retention of adhesion at cold temperatures has been significantly improved.

T10 offers the same basic electrical specifications as non-bonded cables, but extends the upper frequency of the cable to 1GHz. There is no compromise in shielding or sheath and loop resistance.

For the exact values on electrical and mechanical properties see the TFC's product catalog.

### **Increased Cable Life**

Based on test results obtained in our laboratory evaluation, T10 offers significant improvements over non-bonded cable in fatigue protection both before and after aging. In all cases, the flexural performance of T10 actually improved rather than degraded after thermal aging.

While non-bonded cable offers firm support of the aluminum from its hard dielectric, T10 bonding supplies additional support even at cold temperatures.

Since T10 utilizes the same full wall seamless sheath as conventional non-bonded cable, there is no compromise in the corrosion life of the cable. In addition T10's bonded jacket will prevent moisture from travelling under the jacket.

## **CONNECTOR INSTALLATION**

Since T10 is an enhanced version of the standard non-bonded cable line, the basic dimensions are unchanged. Therefore, standard connectors and coring methods can be used.