



MDT Electronics

36-Conductor Cables/Connectors

For production, we need a flat, shielded, zero-halogen cable.

We need about 15000 cables with a total length of about 10km.

Cable (8.3m/detector) (per detector) \$95

Amphenol Spectra-Strip has quoted US\$ 346.19/CFT
 15/pair halogen-free, shielded and jacketed (\$ 11.36/m)
 (quote was for 5000 ft; our total is about 30k ft)

Connectors (25/detector) \$75

3M 10236-6000EC
 About \$3 each in quantity (2 req'd)

Shield / Back-Shell

3M 10336-1230-00 TOO BIG for most locations
 (About \$7.50 each in quantity)

Our design retainer (sheet metal) at \$5 \$60

Labor \$185

30 min per cable (my estimate) = \$15

TOTAL (per detector) \$415

Amphenol quote using 3M (or custom design) backshell \$1115
 \$90 per cable in large quantities

Original estimate for patch panel / internal cabling \$150

Zero-halogen cabling from CSM to patch panel was never included in the original estimate (at least \$150/chamber).