

# TV-OM-AMS-SLA

# TV-OM-LSZH-SLA

# TV-OM-CMR-SLA

New products

## Description

The cables are low cost cable.

This composite cable integrates power line for TV camera, control line, and optical fiber for video and audio transmission.

For fixed cabling applications, three grades of cables are available.

Type-1 TV-OM-CMR-SLA, Highly fire-resistant riser grade

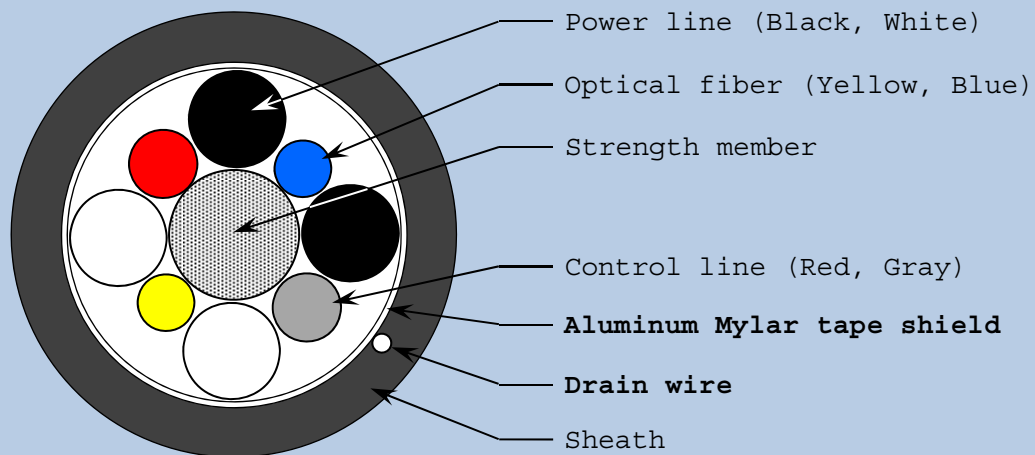
Type-2 TV-OM-LSZH-SLA, Low- smoke emission, halogen-free, fire-resistant grade.

Type-3 TV-OM-AMS-SLA, Fire resistant VW-1 grade

Because it is thinner and light than conventional products, it is most suitable for fixed use.

## Specification

### ● Structure



### ● Optical fiber

The optical fiber is the same as conventional products.

| Item                    | Description              |
|-------------------------|--------------------------|
| Type of fiber           | Single-mode silica fiber |
| Mode field diameter     | 9.5±1μm                  |
| Clad diameter           | 125±1μm                  |
| Transmission loss       | 0.5dB/km (λ=1.3μm)       |
| Amount of eccentricity  | 1μm or less              |
| Cutoff wavelength       | 1.10~1.35μm              |
| Coated outside diameter | 0.9±0.1mm                |

● **Cable (Integrated)**

| Item \ Type               |                      | TV-OM-###-SLA   |
|---------------------------|----------------------|---|
| Optical fiber core        |                      | See Table on the front page   |
| Power line                | Conductor            | Tin-plated soft copper wire strand<br>(21 wire/0.18mm)  |
|                           | Insulation thickness | 0.4mm nominal   |
|                           | Conductor resistance | 37.5Ω/km  |
| Control line              | Conductor            | Tin-plated soft copper wire strand<br>(7 wire/0.203mm)  |
|                           | Insulation thickness | 0.33mm nominal  |
| Tension member            |                      | Sheathed steel wire,<br>1.8mm nominal in outside diameter   |
| Core stranding            |                      | Two cores of optical fiber, four cores of power line and two cores of control line are stranded around a tension member |
| Shield                    |                      | Aluminum Mylar tape   |
| Finished outside diameter |                      | <b>8.8±0.3mm</b> nominal  |
| Approximate mass          |                      | <b>110kg/km</b> nominal   |

### : AMS or LSZH or CMR

● **Comparison of TV-OM-AMS-SLA and TV-OM-AMS(Example)**

| Item \ Type               | TV-OM-AMS-SLA     | TV-OM-AMS         |
|---------------------------|-------------------|-------------------|
| Minimum bending radius    | 6D=52.8mm         | 6D=55.2mm         |
| Finished outside diameter | 8.8±0.3mm nominal | 9.2±0.3mm nominal |
| Approximate mass          | 110kg/km nominal  | 120kg/km nominal  |
| Insulation resistance     | 10,000MΩ/km       |                   |
| Withstand voltage         | AC 2,000V/min     |                   |

● **Evaluation contents**

| Type of cable  | Name of tests   | Reference Standard |
|----------------|---|--------------------|
| TV-OM-AMS-SLA  | Single Wire Flame Test                                | IEC 60332-1        |
| TV-OM-LSZH-SLA | 3m Cube Test  | IEC 61034-2        |
|                | Vertical Tray Flame Test                              | IEEE 383(1974)     |
|                | Hydro-chloride evolving quantity measuring instrument | IEC 60754-1        |
| TV-OM-CMR-SLA  | Riser Cable Fire Test                                 | UL 1666            |