EA3C033-Ed1

# CW 1128 / CW 1179. PET FILLED CABLES WITH MOISTURE BARRIER SHEATH


Telecommunications Cable


Waterproof


UV resistant

ROHS compliant

## STANDARDS

Construction: BT CW 1128 / CW 1179

## DESCRIPTION AND APPLICATION

Cables from 5 to 100 pairs with copper conductors of 0.4, 0.5, 0.6, 0.63 and 0.9 mm. Cellular PE insulation, twisted into pairs and PE jelly filled, stranded into units of 10 pairs with moisture barrier sheath. They are used as primary cables in distribution networks inside ducts or buried without pressurization.

## CONSTRUCTION

- ***Conductors***: Annealed cooper of 0.40, 0.50, 0.60, 0.63 and 0.90 mm nominal diameter.
- ***Insulation***: Cellular polyethylene.
- ***Cabling elements***: Pairs.
- ***Core***. Up to 10 pairs in layers. Higher count cables in units of 10 pairs.
- ***Filling***: Polyethylene jelly.
- ***Core wrapping***. Paper tape, longitudinally applied with overlap.
- ***Cable screen***. Polyethylene coated aluminium tape, longitudinally applied with overlap and bonded to the outer PE sheath
- ***Sheath***: UV resistant black polyethylene.
- ***Sheath marking*** : The outer sheath shall be marked in white ink, at regular intervals, with the following information:
  - *Name of manufacturer/ Year/ Length marks*
  - *Other type of marks according to the costumer*

| **ELECTRICAL CHARACTERISTICS (20ºC)** | 0,4 | 0,5 | 0.6 | 0,63 | 0,9 |
|---|---|---|---|---|---|
| *Conductor Resistance (Ω/km)* | | | | | |
| • Average | 143 | 91 | 63 | 58 | 28 |
| • 99 % of values | 150 | 96 | 67 | 60 | 30 |
| *Minimum insulation resistance (MΩxkm, 20ºC, 500 V)* | | | 1500 | | |
| *Mutual capacitance (nF/km, 800 Hz)* | | | | | |
| • Average | 56 | 56 | 42 | 56 | 59 |
| • 99 % of values | 64 | 64 | 46 | 64 | 65 |
| *Capacitance unbalance (pF/500m, 800 Hz)* | | | | | |
| Pair-pair 99 % | | | 275 | | |





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## MECHANICAL CHARACTERISTICS

Temperature range: from -25º C to +65º C

Bending radius: 12 x $R_{cable}$

## DIMENSIONS AND WEIGHTS

Diameter : 0.50 mm

| Code | No. Pairs | Cable Diam (mm) | Aprox. Weight (kg/km) | Length (m) | Drum Type |
|---|---|---|---|---|---|
| EA3C03351000502N | 5 | 10.7 | 83 | 1000 | 08 |
| EA3C03351001002N | 10 | 11.8 | 112 | 1000 | 08 |
| EA3C03351002002N | 20 | 13.5 | 166 | 1000 | 08 |
| EA3C03351003002N | 30 | 15.1 | 220 | 1000 | A0 |
| EA3C03351005002N | 50 | 17.7 | 324 | 1000 | A2 |
| EA3C03351010002N | 100 | 22.8 | 563 | 1000 | A4 |

Diameter : 0.60 mm

| Code | No. Pairs | Cable Diam (mm) | Aprox. Weight (kg/km) | Length (m) | Drum Type |
|---|---|---|---|---|---|
| EA3C03360000502N | 5 | 13.3 | 114 | 1000 | A0 |
| EA3C03360001002N | 10 | 15.1 | 162 | 1000 | A0 |
| EA3C03360002002N | 20 | 17.9 | 251 | 1000 | A2 |
| EA3C03360003002N | 30 | 20.4 | 330 | 1000 | A4 |
| EA3C03360005002N | 50 | 24.6 | 496 | 1000 | A4 |
| EA3C03360010002N | 100 | 33.6 | 926 | 1000 | A6 |

Diameter : 0.63 mm

| Code | No. Pairs | Cable Diam (mm) | Aprox. Weight (kg/km) | Length (m) | Drum Type |
|---|---|---|---|---|---|
| EA3C03364000502N | 5 | 11.9 | 103 | 1000 | 08 |
| EA3C03364001002N | 10 | 13.2 | 146 | 1000 | A0 |
| EA3C03364002002N | 20 | 15.3 | 227 | 1000 | A0 |
| EA3C03364003002N | 30 | 17.4 | 309 | 1000 | A2 |
| EA3C03364005002N | 50 | 20.6 | 457 | 1000 | A4 |
| EA3C03364010002N | 100 | 27.4 | 841 | 1000 | A6 |

Diameter : 0.90 mm

| Code | No. Pairs | Cable Diam (mm) | Aprox. Weight (kg/km) | Length (m) | Drum Type |
|---|---|---|---|---|---|
| EA3C03391000502N | 5 | 13.8 | 149 | 1000 | A0 |
| EA3C03391001002N | 10 | 15.7 | 228 | 1000 | A2 |
| EA3C03391002002N | 20 | 18.7 | 380 | 1000 | A4 |
| EA3C03391003002N | 30 | 21.4 | 521 | 1000 | A4 |
| EA3C03391005002N | 50 | 26.0 | 818 | 1000 | A6 |
| EA3C03391010002N | 100 | 35.6 | 1564 | 1000 | B0 |





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