

## GYTA53

### Stranded loose tube cable with aluminum tape and steel tape (double sheaths) (GYTA53)

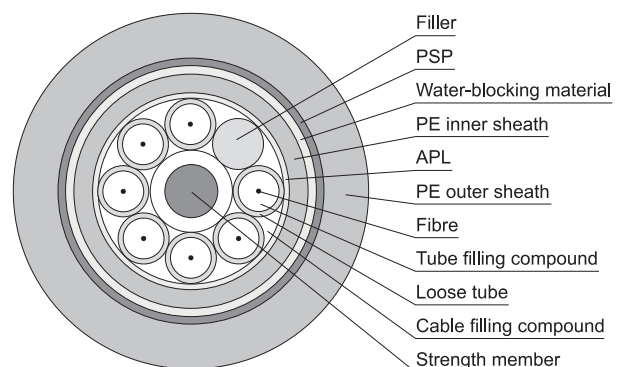
#### Description

The fibres, either of single-mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire sometimes sheathed with polyethylene (PE) for cable with high fibre count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then the cable core is covered with a thin PE inner sheath. After the PSP is longitudinally applied over the inner sheath, the cable is completed with a PE outer sheath.



#### Characteristics

- Accurate fibre excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fibre
- Specially designed compact structure is good at preventing loose tubes from shrinking
- Crush resistance and flexibility
- The following measures are taken to ensure the cable watertight:
  - Steel wire used as the central strength member
  - Loose tube filling compound
  - 100% cable core filling
  - APL moisture barrier
  - PSP enhancing moisture-proof
  - Water-blocking material



Storing temperature: -40°C to +70°C  
 Operating temperature: -40°C to +70°C  
 Bending radius: Static 10 × D  
 Dynamic 20 × D

Application: Duct/Aerial/Direct buried  
 Issue date: 2011-01

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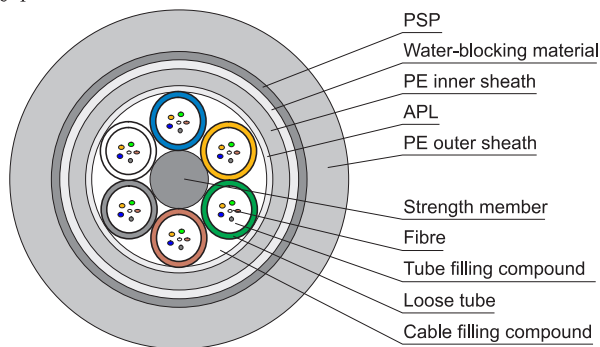
Cable Type (increased by 2 fibres)	Fibre Count	Tubes+ Fillers	Max.No. of fibres in tube	Cable Diameter mm	Cable Weight kg/km	Strength Long/Short Term N	Crush Resistance Long/Short Term N/100mm
GYTA53-2~36Xn	2~36	6	6	14	210	1000/3000	1000/3000
GYTA53-38~72Xn	38~72	6	12	15.7	250	1000/3000	1000/3000
GYTA53-74~96Xn	74~96	8	12	17.4	290	1000/3000	1000/3000
GYTA53-98~120Xn	98~120	10	12	19	345	1000/3000	1000/3000
GYTA53-122~144Xn	122~144	12	12	20	420	1000/3000	1000/3000
GYTA53-146~216Xn	146~216	18	12	20	428	1000/3000	1000/3000

Note:

a. Suffix Xn denotes fibre type and see details in cable coding illustration.

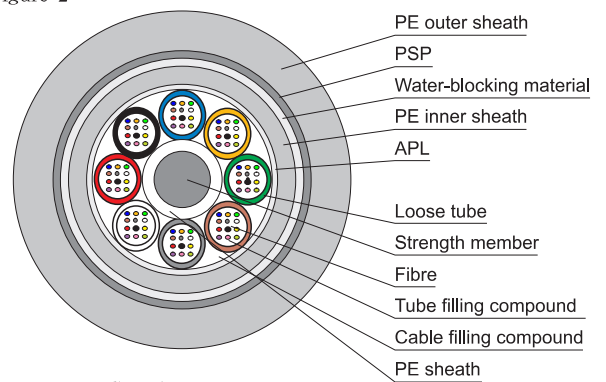
b. The colour arrangement of fibre and tube is specified in the colour identification table.

Figure 1



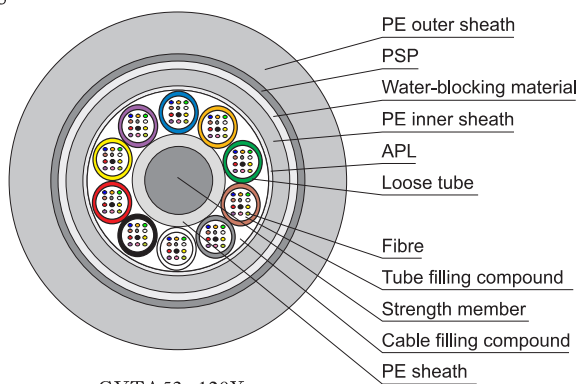
GYTA53-36Xn

Figure 2



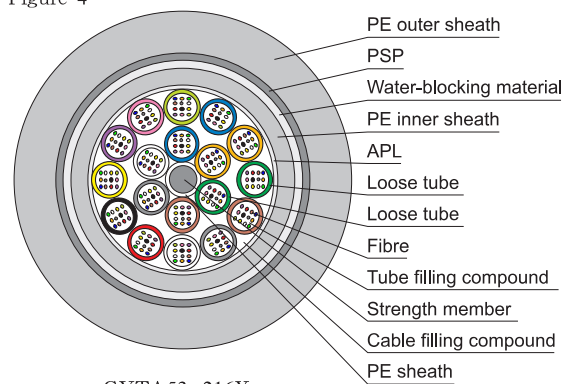
GYTA53-96Xn

Figure 3



GYTA53-120Xn

Figure 4



GYTA53-216Xn